

4449	12500	A	5355	2	5217	APLDGEVELLQOKLREKLDEFNELAIQK ESADRQVLMQEEIEIKRL EEMNIRKKV AQLQEEVEKQKNIVKLEQDKVILKKQ QMSSLLASTLQSTLDAGRCEPPSGSP EGPEIQLEVQORALLRRESEVLDLKEQLE KMKGDLESKNEEILHLNLKLDMONSQT AVSLRELEENTSLKVYVTRSSIEELKAT IENLQENQKRLQKEKAEIEQLHEVIEKL QHIELSLMGPPVHEVSDSQAGSLQSELLC
4450	12501	B	5356	224	326	XSSSDGNLRPEAITAIIVFSLAALLLAV GLALL*
4451	12502	A	5357	87	558	STFFPAIKHWVDLTAQRGHCLSPRSHSN EGRQMQRGPRWAGSPAPSPWSPGPG PRIHGRTERKERGLWGLLDTQRKVGSA SRGVGFEPQHT*AAGTAKQRQHAASPP HGCPQLPTSPPEPSEAGSVAAAVYKP ATRSFGQCWWLQQAAPFR
4452	12503	A	5358	3	713	TDRGCRGRDTHPELIG/PKTPGPGAPLQ VPLAGDAVGGASARSFPLGAGNPPPIPW RTPVAGAAAGGAPAAPAGPLGPSLG/RKY RPLLRMRIALFCLHPPAPAPMATCVHKP SLLSSRSSTS/SAALLAVGAGTVGAERF GRSGRRRAPTPGPVARSSSPMQPRPGPLR TPRRRCRAACPSRPLHLSPFIAPV*PWG KAVPSLGSQIHPVLNSREEGTSKTILPRS REDGAIHFYIFI
4453	12504	A	5359	2	807	RPQGFPAWRLPSRRGATPGRLP RS*PRPH PRPEPGVRVGPWVHIESVR/HQDCSGRSP GQTPCEDRAPSGKGSALGRSLGPWTL IGSGRG/RSPGKLGPSGPAKAF*RRR/RA SKVAPGPLDGPWRIAQAWAREKGHILA WGTGGSWPPSHAPGHQLGFQKLQPLGN QREWGQNLGIQDL*GQVDPNRPPLSGP GDRHLTGKPSGREGALSQGPQGRHSPGR PQQQASSSCCERSHPGLPPVTHICPGVQ WASCPGWGCLARCSPPRA
4454	12505	A	536	426	634	VFCYSRTNWNKTEINRKKFGKLP SIWKL SSTLLNNQ/LVSEENKREIKYPIDINENE DTTYQNLWNEKQC
4455	12506	A	5360	1	412	FFFFLRWSL/NSV/SQAGVQW/WDLSLLOP LIPGFKQFSCLSLLSSWDYGCPRPAPFL HF**RQGTMI.FRLVSN S*PHDSPISASQS AGWIGVSHRARPSCLLAYFSEFVSKWK QSSTKALPCGFRMLCPVLTPEK
4456	12507	A	5361	3	884	YLSIHQVYKGEACPCGPGSKNNQDHSV CYSDCFYHEKENQS LHYDFSNNSSVGS LMNGPSTSKGTKYFHFNISLCHIEGK KMALCTNNITDFNVKEIVAGSDDYTNL VGAFVCQSTIIPSES/TGVSEQPYHIHNPJIL ADTFIGVTVETILKNINIKEDMFPVPTSQI PDVHFFYKSSTATTSCINGRSTAVKMR NPTKSGAGVSVIPKCPAGTCDGCTFYFL WESAEACPLCTEHDHIEGACKRGQOE TLYVWNEPKWCIGISLEPKKALTACETV DFWLKVAGAV

4457	12508	A	5362	3	2697	CSVKECLOASAKLPSAPASVLLCLLVA KVWRRRLRWQEAFAFCASGEYLEMKNQ VCSKCGEGTYSLGSGIKFDEWDELPA GFSNIATFMDTVVGPDSRPGDCNNSWIP RGNVIESNRDDCTVSLIYAVHLKKS GGVYFFEYQYVDNIFFEFIQNDQCEMD TTT DKWVKLTDNGEWGSHSVMKSGT NLIYWRITGILMGSKAVKPVLVKNHIEG VAYTSECFPCPKPGTFSNKPQSPNCQ SCKIIDPF LKRFFVVAEESSECTER PCTTKDYFOIHTPCDEEGKTQIMYK WIEPKICREDLTD AIRLPPSGEKK DPCPCNPQFVYNNSSSCH PCPPGT SDGTKECPCPCPAGTEPALGFEY KWWNVLPGNMKTSCFNVGNSKCDGMN GWEVAGDHIQSGAGGSDNDYLILNL HHIP GFKPPTSMTGATGSELGRITFV FETLCSA DCVLYFMVDINRKS TNVVSWSGGTKEK QAYTHIIFKNAT FTFTWAFPEN*FRVQD NRRFINDM VKIYSIATNAVDGVAASSCR ACAL GSEQSGSSCVPCPGHVIEKETNQC KECPDPTYL SIHQVYKGEACIPCG GSKCN NQGKMKALCTNNIDFTVKEI VAGSDDY TNLVGAFVQSTHIPS ESKGFRALSSQSI ILADTFIGVY TETTLKNINIKEDMPVPTS QIPD VHFFYKTIYRQIIDIKCPAGTCDGCT FYFLWESAECPLCTEHDFHIEGACKR GFOETLYVWNEPKWCIKGISLPEK LAT CETVDFWLKVGAGVGAFTAVL LVALTC YFWKKNQKLEYKYSKLV MTNSKECEL PAADSCAIMEGEDNE EEVYSNKNQSLG KLSLATKTAIGV FGPWSLGYVISQCY SETRSCIS IIVHAKNEILAEIEE
4458	12509	A	5363	1	1146	NFDSKRRTVRNLRIRIEDIAKYL RNLDPN SAHYDPKTRAMREN PYANAGKNPDEVS YAGDNFVRYT GDTISMAQTQLSVSSMS SHFIS AHKT*GIV*SLFSRSIQ*CS CQLTK MFRITLVFAWEAAYDK GSEVHLAQADP/T KLELLYK SVFKVKKEDFKEQQKESILEK YGGQEHLDAAPAEALLAQTE DYVEYSR HGTVIKQGERA VACSKYEEDVKIHNHTH IWGSYWKEGRRGNKCCHS FFKYSYCTG EAGKEIVN SEECINEITGEESVKKPOTLM ELHQEKLKEEKKKKKKKK KHKRSSD SDDEKMGHV KSNKALNA*EARLLHVKE TWMQNDERKRPYNSMY*TS RPIVEEMEA YRMKQRQ PDDPMASFLGQ
4459	12510	A	5364	3	1589	APALKVILRYT*TDAPAIW WLDPELTYG CAKPFVFTQGI SVNCNRSFFPCFDTPAAK CTYSAVVKAPSGVQELMSA TRSAYMEE EGVFIHFHMEH PVPAYLVALVAGDLKPG DIGPTSRVWAEPCLLPTA TSKLSGAVEQ WLSAAERLY GPYMWGRYDIVFLPPS FFPI VAMENPCLTFHSSI LESDFLVIDVIEHVA HSWFGNAVTNATWEEMW LSEGLATYA QRRITET YGAFTCLETAFLRDLAL HIRQ MKLLGEDSPVSKLQ VKLEPGVNPSHLRN LFTYEKG YCFVYYLSQ LCGDPORFDDFL RAYV GEYKFTSVVAQDILL SFLSFFPEL KEQSVDC RAGLEFERWLNATGP PLAEFD LSQGS SLTRPVEGLFQLWTA EPLDQAAA SASAIDISK WRTPQTALFLDRLLD GSPPLP QEVVMSL SKSYCSLLDSMNA EIRIRWLQ IVVRNDY YSLT/FHRVRRFP GRARCHAC YTIPL YEDLCTGALKSFA LEVYQTQGRRL HPNLRRAIQILSQGL GFQHRARP

4460	12511	A	5365	1	418	FMGGVNRADENIDKYRASIRGKKWYSS PL.LFCFEL.VLQNAWLHKT.YDEKPVDFL EFRRRVVCHYLETHGHPEPGQK.GRPQK RNIDSRYEGP*IQVDSPNQGGQOTRCAEC HKNTTFRCEKCDVALHVKCS.VEYHTE
4461	12512	A	5366	1	205	KKFSCGLKKIFHEKNQCS*QISLSYFK KLQQPQLSS.TL/SQQPSTLRQNPPAK RL*LEGSADG
4462	12513	A	5367	1	389	CRFNAISSKATADFTVFGGFLFELHVK KCKWKYKSRVRIKGFKKTQLS/GLLH NNKT*YTSIIK.TELTKYRHMRNPEIDL HRFDQMIFDEGKIVIO*GKERLFNQWCW SRLRCJCLKFSTINGQ
4463	12514	A	5368	2	300	TFPNLMTNMNLQOEQA*IPSWKNSE/RS Q/SRHLIILKLIKIKERILKVEQLITYKG CSIRL.RGDFSPEETEAR*WDDIFVKLKE QVSTKNLIFS.KIVL
4464	12515	A	5369	199	494	
4465	12516	A	537	1190	2097	SSCLKILNITLAKSL/CLDISVCYLLD TGICYCLLDISVCYCLLDISVCYCLLDTSV CYCLLDISVCYCLLDISVCYLLDITGICYC LLDISVCYCLLDISVCYCLLDISVCYCLLD DISVCYLLDISVCYCLLDISVCCLLDIS VCYCLLDISVCYLLDISVCYCLLDISVCY CLLDISVCYCLLDISVCYCLLDISVCYCLLD DISVCNCLLDISVCYLLDISVCYCLLDIS VCYCLLDISVCYLLDISVCYCLLDISVC YCLLDISVCYLLDNSVCYCLLDISICCC LLDISH
4466	12517	A	5370	256	514	
4467	12518	A	5371	2	1340	SLDLGGISTVVVNGYDVVKECLVHQSEI FADRPLCLPMKMTKMGGILKSRYGR GWV/DHRR.LAVNSFRYFGYQKSFESKIL /EKETKFNGCYWKHTKVGPDF*TV**R MLFSNITNLHFWEEFHFMQHRRFRH MDWSYFRWKMWNA*ASASVFLYNAPF W/WA/FLFPFGKHQQLFRK/WTAVVYDFL SRLIEASVNRKPOLPQHEVDAYLDEMD QGGNDPSSTFSKENLIFS/GELIAGTETT TNVLWAIL.FMAALYPNIQGVQKEDLI MGPNKGPSLGR/NAKCPYTEAVLHEVL RFGNIVPLGIFHATSEDA.SLRGYSIPKGT TUITK*FLYHLGWKVPGEDPQKVFPMP ERFPGTSSGIFWPQEGKLWVFPFLGRRH CPWENTLARMENVLFFSSIASEVSFAFS HMN*FOI*SPRLGMTLPQOPYLCAERR
4468	12519	A	5372	135	273	
4469	12520	A	5373	1	344	NLTLPEVPFTPLSCLPSLSS*LAPSPFICI CYAIVP/PPFLLPSDLADPSHPGLPLFP PIISPRHAPSAPPSKKKKKKKKKKTTA PVQASLGTSSLYPLGSETGTPTS
4470	12521	A	5374	1	724	GRGRGRGRAGSRAGRRGGAQAAL/VNR GGPIRNVSDVAGGAAGGGR/NRPAP YSRPKOLPD.KWQHDLFDSGGGG/AG VETGGKLL/VSNLDFGVSDADIQELFAE FGER*RAAAVHYDRSGRSLGADVHFER KADALKAMKOYNGVPLDGRPMNIQL VTSQIDAQRPAQ/SVNRGGMTRNRGA GGFVGWVDGTRKGT.RGGA/RGRGRGA GRNSKQOLSAEELDAQLDAYNARMDDTS
4471	12522	A	5375	37	331	GLLCQASGPQAPGWPA/GLGRGGGSPN LPVPPRPVPA*/APGHTCHALGKIP*VPL PLQ*GPPETHLREPPPGCPPS/PVPSPYQ GFLQPGGRAGGDRD

4472	12523	A	5376	1	385	FFFFFFFFFFETCSVA*AGVQWRDLD*LQ PPPPGFKRFLCLSRPSSWDYRCTSPYLAH F*FLVETGFFHHVGOAGLELLTSSDPISA SQSAGITGVSHCTWPKLTSTILMNVPFL NIILLYLVLAK
4473	12524	A	5377	21	352	PTHWPPTVLEATAPGSEYFF*DAVLLS SRRLECSG/SISAHCDLHLPSSDSPSSVP QVAWITGVRRHVLIFVFLVEMGRFHV QAGLK/IA*QVHPPPHKVLGLQV
4474	12525	A	5378	2	545	TCLGFFQMFFLGSLIFVCYILLKDFCVFIF SSNLGSLIFVCYILLKDFCVFIFSSQLPFT FYMDYSNPLGLSMSSLSRIS*KTP*MYG*V LYPFF*KRNSQCFFPNRDYFWIVCSSSV DLFCTLFFTSCPHQQPSCPPPGNGKGA PLPTVLEALKMMMVFFGLSSRIRGRS WKSP
4475	12526	A	5379	545	1462	GYPFCFIIPVATS*QSIGVNF*LFYFVY IYIFGFWGGILCKVSSVCLFQVYFSFA KIEPPGFKTTLPPSTLVNNWELTSLHQ K/RPANFVIFGKRQGFHVGPLNSGPHA IRPASASQSTGITGVSHCACALNFTPE
4476	12527	A	538	163	372	IRQRKAKLVVIAFNKRGLRKPFIFFYAG VGKIVKKKYSGFIELVTTCGKNYLMCA LAVIDPRDSNIIRS
4477	12528	A	5380	2	243	GFKQFSCLSHPSSWDYRCAPHPNTN*F LVEPGFFHHVGOAGLELTPSGDLPAASQ SAGITGVSHHPWMSALNSKNVR
4478	12529	A	5381	1	328	SPETGSCSQAQAGVQWHDLSLQ* K*SSYLSLLSNWDYRCA/PRLANFLP QAGSCHLAQAGLELLSSCHLPALVSNQA GITGVSHHARAGSCMEENTSLWTL
4479	12530	A	5382	2568	3052	RGTEGRRVKSSKAGFFCFVLCFVLRWS LTLAQAGVQRHDLSSLQPPPTFK*PSC LSLPSSWDYRPPRSG*F/SFVFLVETGF HQVGOAGLELLTSGDPASASQAGITG VSHHAQPLDLEPPVCGORDMALLLE RLPETVTCFLPSELRRAR
4480	12531	A	5383	2	306	FFEMESCSAAQAGVQWHPNSSLQPLPFG FKQFSCSLSPSSWDYRRAPPHPANFEL VDARFYHVGQAGLELLTSSDLLASAS*S AGITGMSHHGW*ATF
4481	12532	A	5384	141	414	IRITEGGAQASVVFKTQVWLTGVAHTC SPSTLSRSGWIT*VQEFKTSQSNRNORG CNLVWSLKLTSILLTFELDSIRQEEGLV RRWGR
4482	12533	A	5385	2	287	GRVGNKKFGGRISLC/QFGWSAVTOLQ LIVTLNSWAERFSQDLPS*DYRCTCLA NFLTCKDECLAMLLRLVLSWPOGIP POLLKVLELOV
4483	12534	A	5386	663	1014	ILKHYPQSISLQKXTRQLSASLITNAK VFQASRNFVSSHILALLQENIFYNTKP VICKPG/CVIRIT*KL*IASQVRWLTVP ALWEAEAGRSRGQGIKTLANT/VKPLY
4484	12535	A	5387	3	208	EDVNRWRDIPSPWIGRVIRVMSVL/PNP INNTYINTEFLIL*Y*YRNTSIFIKISGRFF VLLRENE
4485	12536	A	5388	190	261	ISIF/CFFKTDSSCVAQAGVO**NLGSLQ/P CNLQPLPPGFK*FSCLSLLSNWDYRCAPP /HPNFCIFSRDGISP*LSILPTPIKVAR LI

4486	12537	A	5389	31	1431	RETRSCWAHYHAESSKHQAKLKDSRK ARRSIELIGPSSSQKGGDICSJLHLSKLG LCYSKTGNMGGWEGMQLRVSSSEN GKSSRERAADLPQGSCWHELPGRLJNT RLSKPRHVWNLSSVLCQVVKVKSMQ MPHMPITSAMQGDRLGICVTQFDPKLL RGLVCAPESLHTVHAALISVEKIPYFRGP LQTKAKFHITVGHETVMGRLMFSPAPD NFDQEPILDSFNFSQEYLFQEQYLSKDLT PAVTDNDEADKKAGQATEHGHCPRQW ALVEFEKPVYLPASAVPGDWLQARCGHS PNTCRLAFHGQSCSTG*RTGT/NADSLP RLKVYKJLKHKGHLVERAMDDYSVIGRS LKKETENIQLFVGLKVHLSTGELGHDSAF GQSGKFIIHPGGLSPESKKDPDTPPSKT GPGWPVGGQPRRRSPSGANPHKMGW LTRPKRYVFDTHKRMVQSP
4487	12538	A	539	995	1192	ILGNLTACSFYTSSLNAVWILKSAMLQL YHFIFGDRPSLCHPGWASVQSLLTAT STSWAQAE
4488	12539	A	5390	1	421	FFFW*GTESQLLPQCSGAIHAHCL*LP SSEPPTSAS*VPETIGTY/RHAWLFFFFNL FFVETGSHYVAQAQFEPLGNSDPPFPQP KLLGITGMRHRSRPELLPLTPVMSWESQ DGETEDFCAMETWKNVITCLAQTRFL
4489	12540	A	5391	1105	1497	LFRTSLLVIAFLPKKNFF*HYA*SYNVH PNTARKIKPEFRAVRVSLFSEMSNIFF FFDTEFHSVTRLECTG/T*STTHCDPRLP GFEQILPASQSSWDSAPACATHRLIF FLVETGFLHVQOAG
4490	12541	A	5392	109	695	LLILPSAVTSPYPPKDLPWGGMILSKPLL GSMLANNICVAGGCS*STSLPS*LSSWRV GPOHLPRHARPHQQVOYIISQDGVQHL LPQEYVVVPEGHIIHQGQKRITHIQVEQ GAPFLOESQIOQYVPVSPGQQLVTQAOLE AAAHSAVTAVADAAMAQAQPGPVWLQD EDKCPKHNSNKLQHPRASKYDVITPOR
4491	12542	A	5393	1	405	
4492	12543	A	5394	203	458	
4493	12544	A	5395	2	1185	LILNKKSRTRRSFFRRHGSPHGFAPWRP SRLAEPGELG*REREGYNNPPISENLIG LSRARPRHNAIFVNFDEEVPKQPLEAA AQ(TWRRVCTNPVDRKVEEELRKASPA LRLAPLDIRPIWSRNAVKANITVHPNRF KAWLPLAYYMYMTGPWRSWLIRFGYDP RKNPDAKDL/YQVLDPRIRCGMKQGYA PSDLPVKAKRSTYNYSLPITVKKTSQ VTMHDLEA WPPWRRGRSGARKPASSKY KLK VSLQTLRDSVYVIFREGALPPYRQM FYQLCDLNVAEELQKIHNRNDGAEDFLA QERGWWGCLPQGPDEF/RGDTMSPMIR PITGSKRPAI.PSSAKADGGKEQLTYES GEDEEDEVEEEEEEDFKPSDGENEMG NQNF
4494	12545	C	5396	95	295	MSITKAPXXXXXXXCCCCXXXCCCC XXXXXXXXXXLSLRIILFQNYLY*WDKIT FLYCEHTYGAQ*
4495	12546	C	5397	262	390	
4496	12547	C	5398	118	132	
4497	12548	A	5399	109	559	QFLHRLVHDSGEVWMKLV**NTLLAK MYSISWPRDLPASASQAGITGLIGALVL SVGYAEVER/HEI*NP*KCLPGSSHHPPH PGRRHVHGLLIHWACAGVPP*QGGKH
4498	12549	A	540	77	199	SKSRPIASNKEAIKSLPAKKPGPDGFAT EYQTFKEEL

4499	12550	A	5400	1	362	FFFFLLRRSL/SSVPQAGVQ*HDLSSLQPP/ PPGFTFSCSLSPSSWDYRCPPPPAKIFL YF**RRGFTMLARMVSI*PRDPASASQ SAGITGVSHRARPPPPQFFIQLPLYNIHTL EGR
4500	12551	A	5401	2	462	NPPTAS*VAGTTGACYHTRLILVCRDR VSPCCP/VL.VFFFF*DRVAQAQGVQWHG LGSTCQPCPFGKFRLLPSDSPALSPSS WEYRHPPPRPA*NFCHIFVEIGFTVLAR MVIS*PRHLPALASQSAGITGLSHCARP VDSFLATSIY
4501	12552	A	5402	3	352	SSRPGSCRRGA VRAAIRYVRLRAVPSGG GEPPSGAPLQPSWK*AFARPGLKCSMP SQAPSRSAVLFEFLAEWMLHCA*QDEV RLGGH*GRRGPLLLDRSRA*RESPAEVRP ARE
4502	12553	A	5403	3	286	SVAQVGMHGHSLGSLQPLPGLK*SSHLL NLPSSWDYRHAPPHLANFCIFVEITGFR HAIQAAGLKSLSNWPITLASQSVITGV SHRAQPC*TF
4503	12554	A	5404	73	542	VLIFFFFLKLSD/SA*AGVQWCNLSL QPPSPGFK*FSCLSLLSSWDYRCVPPSPA NFFIFLVEGFTVLARMVSI*PHDPPITL ASQSVGITGMSHCPWTDLI*CKRDTLC IPMSLS**FKVPKGNLWKLLGKFGGLP LGIONAYFWIV
4504	12555	A	5405	1	397	EMESSSVTQA*VQWHDALLQPPPPFRN RFSCLSLLSSWDYRCPPSPANFCIFSRD/ MGFIVLARI.VLNS*PNLDPASASQAGIT SVTHRIWSKIFFRVNDHYIYLFSSMELN VPTIVLCYHPQSSNMYS
4505	12556	A	5406	72	243	EPMTQVSMFSLRQPMKTTGMRIAMQE KVTQNTPSS*KIFRFPYLIQVSLVISI
4506	12557	A	5407	34	420	MLYSHDPELS*QRVITALYAVFPFPVP DFL*IFPSALVSIQSGRL/VLSHWFLLD RVFHF*FEKAHL*KLCCGNP/WLSALLST KVM*ERLVDQ*LSMAKTTE*EPMTQVS MFSCGRVEEFRRHPC
4507	12558	A	5408	3	316	FFTFNSROGLCHPSWSAVTQSRLLTVASIF RVQGSLSLLSGS/WDARHVPPCLANF* FFCRD/RGLVMLPMSVSNWSQAQILPVP LPSIGITGVSHHVLASLVEF
4508	12559	A	5409	905	1291	RGADTCLGFOVSADLHILFSLFCVSAQ AGVQWRNLGSLQPPPGFKLSCLSLLSS WDYRHAPP/RPQ*FFVFLVETGTRVGQ AGL*LLTSGDPPASASQTA/RGL*GMSH LASPIYLDYFK*NFNKP
4509	12560	A	541	212	322	
4510	12561	A	5410	2	308	FLRHNLAVTQPGAQWRLSSLQPLPPEL KPSSHFLPSSWEYRCEPPHPANF*FIVE TGFFHHVAQAGLEFLASSDPPTSALNAG VTGVNHSACLCSYLL
4511	12562	A	5411	3	368	HRGESVWNICRWGTLR*GKIGKMTIAH CL.EFIGALIVFSITSPAPFEAEKWKNDLD *TLTHGRPVSVLLAKKCDHG/KDECRN SSI.KMGQIYMEHSFVG*IETSAKENVNF DEASRCLDAK
4512	12563	A	5412	73	380	GQALQWCVSVMCSIIHSPCV*VLWV CVCLCISMCMYSYACVLGYTKFGVCTE KNKQNTGNRSTQGLPLRNHTGSRFR WLDHFILASPCKTLRSLSP
4513	12564	A	5413	1	400	NSEGAAWIQPPAGEPTWGQSGGTQRA G AMP PGDYS*SQGHPPFLH/RAPPPLTRNR RIFLRKRAPSVLEDPRKPPSRGQORL*DA LHHVLVAQLREGMLGQPRPHPPPKPIK *SQA*QLPAGEPEVGPAGADR

4514	12565	A	5414	1	895	LRRARPRGWAGREAGPHPH*LRCRSSSA ALRPAFPTRPGTGETGLDRTEGRDQTSV NSAT/RLPNTPSRSAGGSSLQTRGLPGS SPQQRNP/PGDKAEAPKQGE/RMPGGDYF VIPRT/PLPAP/PLTRNRRIFLRRAPSPV LERUPEASKQRTATPLRRITAPCASGAQ RGDVSGRKGVCCKAGEQG*PPNNPLRR SQAHARKRRRGDKFQVRLQYCAF*DF WRRLSWQNPFFKATLPLLR*PLPPLQA GTAPSPSSSQAN*MITARVTVTGWAG SGTGSKGP*EPGRASFPS
4515	12566	A	5415	20	481	PTDRPGEHSKTPSLQKCKK*KLAGCSGT CL*S*ILGRLRQKDHLSPGVRGYNEL*SC HCTPSWVAE*GPVSK*IIQSPRKE*S/LY NEKNPSN*HIVDSGEWFSFVLGADRWG AGVLYQVRVRLSQMCNERGHKHCIPITI YLPYKPLCLPAL
4516	12567	A	5416	236	820	RRPQQAQKMKGSRIELGDVTPHNLFNCL ILCGVTS/PNIKQJAKRLNQVIFPVSYNDKF YKDVLEVGETLKLAYFNDAVGA VCCR VDHSQNKRLYIMDTRDVWAPYRSLGI RELKC*IMCLKHLLKMLVFDNIFLHVQI SNESAIDFYRKFGFEIAPKKNYYKRIEPA DAHVLOKLNKVPSPGQADVQKTDN
4517	12568	A	5417	15	209	KASRKMQIETTLRYLSPMLAKMQML INTSCW/RKSQETRLIC*W*EGKMVQPL SKGIWYPYLIQ
4518	12569	A	5418	1	498	VQRTROLVTPSPMSSSD/EQSSSPQCTV PSKLLVDPLQHEFSKCGENDNIPITPSNS NTPLKHSASFISATGTTESRSVPQJKNGS VVSLQSPGSRSSAGGTS AVEVKVEPETS SDEHPVQCQENSDAKAPQTPSALLGQK SNTDGA LQKPSNEGVIEIKATK
4519	12570	A	5419	8	299	
4520	12571	A	542	1	518	MAVARLA A VAAVWPCRSWGWAAPVF GPHRGLSVLLARIPQAPRWLPDLNLA YKLLKGKSPGIIFPGYLSYMGKALAI EEFCKSLGHACIRFDYSGSSDGNSEES TLGKWRKNVLSIDDLVDGPQLVGSLL GGWLMMLHAAIARPEKVVALIGVATRCR YLSDKV
4521	12572	A	5420	1	3788	MMRLGAEPSGQLQNDIEVISSACRLV CEWAQKVLSPQFTVLELARFLVKSHYI GTKSMAALTYMAA APMKGITQPSAF IPTAESNSFOPVKTLPSIDAKQOLQRI QKKQOEQKLQSLPGESA AKKSESATSN GVTNLPNGNPSILSPOIGIVVAVPSPI VQRTROLVTPSPMS/CF*QSSSPQCTG GHSAHVCETGTGKDSPERSSQSWGSG CPAPLPSDLTQTEHOCCTPIRSPITVL
4522	12573	A	5421	288	668	VEKROFLNSTADPECIRYPLTYFVLGQSL ALVTKAGVQWRNLSLQPPPFEKRFPC LSLLSSWDERHAPPCPS*F/CVFLVKTG FHRVSDGLDLLTNSNDPPTASQSGAGITG VTLAPSLFVLH
4523	12574	A	5422	3	288	STIFFFFK*NLARLSRLECHGTISAHCNFR LLGSSDSPALASQVAIGLRTGCHHT*LIJ VPTVETGFRHVQAGLELLAWVICPP*P PKVLRQA
4524	12575	A	5423	1	781	MVHITGLCADNLQYQAGARIISVPEEDN SKSLENIFGHIENFPLARDLDIQQEAQ GTPGKCITKRSSPRHIVIRLFVKVTKERIL RAVRQKHQVTVRGKPIRLTADFEETLR ARRDWGHIFSFLKQNDYQPRILYA AKLS IIEGKIQSYSDKQMLREFTTNGKLLKG AVSLVVALNR*NKSWKHIKTHQNRITSLK HKSHRTYKTKIPLHDEYNDLRSALRPAS HTAYGMLMILKSSLTFLKHGDEVVGR AK

4525	12576	A	5424	2	392	KTKHQMANHKKRKHQSQ**VRLMQKKI IMIHYYIPQWLKTSKSDMKCCSGYGTE IFTHYLWECKLLHLLWRMVWLLKFKF TDTPHDPAPLLGTYPAEQCTCTPKAHT AALSIIVPSWEQPKYPQ
4526	12577	A	5425	1	181	
4527	12578	A	5426	1	2162	MALFVRLALALALGPAATLAGPAKS PYQLVLQHSRLRGQRHFNVCVQKVI GTNRKYFTNCQWYQKQCKGKSTALGT ADVKGVSLLAVSVSDLGGEQMRKLRF EMMKLAEDGPAALPLSNLYEILGVVGS TTTQLYTRTEKILRPEME/GGPGSFTFA PSNEAWAPLPAEVAGTFLVSNVIELL NALRYHMGVGRVLTDELKHGMILTSM YQNSNIQIHHPNGIVTVNCAILLKADH HATNGVVLHLDKVISITITNNQIIEIDTF ETLRLAIVAAAGLNTMLEGNGQYTLAP TNEAFKIPSETLNRILGDPALRDLLNN HIL/RSQAMCAESIVAGLSVEILEGTTLE VGCSGDMLTNGKAIJNSKDILATNGVVIH YIDEILLIPDSAKTLFELAAESDVSTAIDL FRQAGLGNHLSGSEARLTLLG/PLNSVF KDGNNPIDVALTRDLLWNHINKDQLASK YLYHGQTLLETLGKKKLVKVFYRNSLCIE NSCIAAHDKRGVYGTFTWDRVLVTPP MGTVMVDKLDGNRFSMLVAIQSAGLT NLTNRREGVYTVFAPTNEAFRALPRERS RLGDAKELANILKYHIGDEILVSGGIGA LVRLKSLQGDKL VSSA*KTNVVSVNKE PVAEPMATNGV/VHVIKVLQPPAN RPQEURGIDLADFAVEIFKQAFSVFPAS QIRSVRLAPVYQKYLAKRMKH
4528	12579	A	5427	1	410	FFFLKRRDLAVAGTGVQWGDHGLSQPQ IPGRKQSSDLSFLNS*DHRLHLSCATFTS F*RSHSAAQAGLEILATSNPPA*ASQGPGL V*GVSHHTWQKATFCICLPANNILSCLNLY SFFYHKTNNHNFIMKTNHKKI
4529	12580	A	5428	3	404	RLFYNTIEMRFSLVQGCILNSLG*SDL LVFASASAGITGVSYPHALASIVFVCVC V*WGSALVAQAGVQ*RNLSLQPLPPEF KQFSFLSPSSWYRHPPPPLSFYLPKLKS CGLCTGIWAWRLFIIFIGS
4530	12581	A	5429	2	240	TRSADV*SQLTAALTSLVKKLSQLSLPR SWDYTHVPPCLSIYFYL*R*GLPMLPGLV SNSWTAQIFLPQPKVLGLQA
4531	12582	A	543	3	604	VMSWAFTHIHHILSDSPRATSSPPIE GDQDIIVLKFLKVLGGKNSGAWGRNR PQGRRRGARVRLNVLNVCCTARRESLC RFKDSMLASMFSGRFPLKTDSEACVID RDGRLFKYLLDYLHGEVQIFDEQTRIAL QEEADYFGIPPYPSLDHILANEMETV/CF KALTDFCDSYGLVCNKPTVWVHYLNT SGAS
4532	12583	A	5430	3	468	RWSFTLVAQAGVQRVILAHQPPPPGFK RFSCLSLPSSWDYRLAPPLANFI*FLVE TGFLHVQAGLELPTSGDPPASASQSARI IGVPLCPGISRIFVOQMALEDSDISLRL WFLSRHANLQCVTLSWACQLLPCGTWR ARETKANTLPAVP
4533	12584	B	5431	151	344	YENESALNLYETCKVRTVKAQTELEKLV HLVPAFQCSDSL SYVTIFLCTYRAFTTTQQ VLDLLFKS*
4534	12585	A	5432	1	439	PSASSGQAGGFSQSFLKQESSGFVRTS AESVLRQESLRGVLVGLVLEYWRGSEVC GSRQSLYGLSSRGILQGPQHP*SPCLCP SPPELKIPENANVFYAMNSTANYDFVLK KRITFGVKVKGHGSFTLPARMKQKGLK IAKGIF

4535	12586	A	5433	77	444	GLGVPSELQEIRVLPLTVCPSSVPQYEN ESALNLYETCKVRTVKAGTLEKLV EHLV PAFQGSDDL SVYVITFLCTYRAFSAQQVLD LLFKR*A*ALHCTGCTRGPRPHPLAAG LGNAESPL
4536	12587	A	5434	1	3190	MVQRMWAEAAAGPAGGAEPFLPGSRRSR SVWDVAVRLEVGPDS CPVVLHSTQLDP DLPRPEVGGGRGLLOKASRVSGGCGRR APSNSRDHGWGFAPLNTVPGPAVTKAA AAQVDLFLRHCPCLHRWPVPYTFQPPR ARSASLAFTMQAVGLCSRQSPYPLGNRL HRCIPCTVARQALDVPAGCRALSSQSST QEIGEELINGVIYISIRKVLQHPAGNKG QRWLGYENESALNLYETCKVRTVKAGT LEK
4537	12588	A	5435	1	435	EKINKIRWLPQQNAAHFLGTNDKAIKL WKISERDKAEGYNLKDDEGRLRDPFR TALRVPIKPMDLMEASPRRIFANAHT YHENSISVNSDHETANIVDIK PANMEELT EVTAAEFHPHQCNVVFYSSSKGTIRLCD MR
4538	12589	A	5436	204	397	VPILKPMGSGY*EASPRRIFANAHTYH NSISVNSDHETYLSADDLRLNWHLEIT DRSFNIV
4539	12590	A	5437	1	1463	PLRSWLPRLPDSQADIISTEFVNSGDL AT/GDKGGRVVFQROEVLQAPRRPAL P*SVSSFLSTSCREVWQGCFLPFRERIK /GRPHSRGEYNNVYS/TAFOHSGTGFDYL KSLIEEKINKIRWLPQQNAAHFLSTND KTIKLWKISERDKAEGYNLKDDEGRLR DPFRITALRVPIKPMDLMEASPRRIFA NAHTYHINSISVNSDHETYLSAR*PGGIN LWHLGNHR*EAFNIVDIK PANMEELTE VITAAEFHPHQCNVVFYSSSKGTIRLCD MR/SSALCDRHS/KSFFEEPDPK/SSRSFF SVEIISISDV KFSHSGRYMMTRGLPVR WKVWGPSTWEEAGPVGGPRVHEYLAR TKLCSL/VEENDCFDPKPCCCWNGSDSA IMTGSYNNFRMFDRDTRDRVTLAEASR ESSKPRASLKPRKVTCTGGKRKDEISVD SLDFNKKILHTAWHPVGCYLPWLATN NLYIFQDKIN
4540	12591	A	5438	3	392	FCACFIGSKTPASCRAQGRRGFEFSPGSP SGPAGGKVLKLEPSEM/PP/PEAGERK LERKTVPGRGAEYGPPLRLSPQAVNS HPLPSSVNGGDSNNSQLPESHCPFPSP KEGPRKGEVPLHATRA
4541	12592	A	5439	1	297	SLLGPPEPTTWT/PAQDR*HGCP*GR*R KRRPSL*T*QWELASPP/REPMFVPKMEM VAIQPLQEEASVGTPELLSGSCRSPIGI SILGNCPSLAPLT
4542	12593	A	544	3	533	AEGDQDIIVLKFVLKVLGGKNSGAWGRN GRPOGRRRGARFLRLNVGGCIYARRE SLCRFKDYNVASMFSGRFLQTDESAC VIDRDGRLFKYLLHYPSWRSSEFPQMRD TRGRPTGKRADYFGIPYPSYSDHLANE METYSLRSNIELKKALTDPCDSYGLVCN KPTVWVLHYP
4543	12594	A	5440	3	11	HELILSPGPTQGQIPDEAGVIIRVLKNVP DLAILNSKDALDPQOPGYQPNPHPGPSS PPAAPRRPGA*GNPOLENASRSDRNPSQ GLRTRIRRPETPDGPPSPAGSS/PAPPPS DVPPAFHSSGPPETTWT/PAQDR*HGCP *GDKRGAPGVAGEDPDQP*GTS

4544	12595	A	5443	1	702	MVAASAAIKFKTNMSLAIAIAEGHVEFA LIPVTA VKYTYTVPALVMTWCLSYIER WVDSITPAVTKNFKPMLIVLIAAPLAIL LIGPIGWISALVYTHGYLWLSVA IMGALWPLLVMTGMRHVFTPTIQTIAET GKEGMVMPSEIGANLSGGSSLAVAWK TKNPELHLDTPHTESPDPHDSNSHRP/PT AGVYNRSKAKSTDKDNDQTRWGNWR WSQRKYCLPL
4545	12596	A	5444	195	524	RALTPRHLPTCSQVASCNLCCLFLADLD TLHTESPDPHDSNSHRP/PTAGVYNRSK AKSTDKDNDQTRWGNWRWSQRKYCLP LIVLSFFQTKQNTGTGFRNFLSPFLMYV
4546	12597	A	5445	2	884	VPQFKPKLHQENGPGLARCDHQQAQAP TRETWLQDRDREFQSKTFLLRSRV*LV LQIQESQHSLERLREGQRLVEREQARMR AQQSLLGHWKHGRQSLPAVLPGGPE VMELNRSESLCHENSFFINEALVQMSFN TFTKLNPSVHQDATYPTTQSHSDLVRTS EHQVDLKVDPSQPSNVSHKLWTAAGSG HQILPFHESKDKCKNDLDSHTESPDPH DSNSHRP/PTAGVYNRSKAKSTDKDNDQ TRWGNWRWSQRKYCLPLVLSFFQTKQ NTGTGFRNFLSPFLMYV
4547	12598	A	5446	269	483	
4548	12599	C	5447	5465	5719	MRLGKTHSTAGAWKMGLLRQADSTRG EKRGGKKAALICVKSPPGYQVVAWKY HSSLGVFEFKKTCSVMGRHDEKKMS WERP*
4549	12600	A	5448	57	102	
4550	12601	A	5449	3	287	RALYYFL*FALFGLT*M*LV*S*KLQIEYE KKQTLGQNDTGFICDGTANTFRVMFKEP JIELPNVCYTACATLKVRVMHYVPDGL LNVAEVCF
4551	12602	A	545	1492	1672	KQWHESHPDYDRSPQTEGDEPSCSWH RLFAQGDK*YEATACHRNLDWQKATDI SCNTNG
4552	12603	A	5450	1	594	
4553	12604	A	5451	1	768	SVEFFCRLSGAVVRWAEACQRLPLV TFGNKQKVLGKALSIRFPLMTIEFAAG PAQSGILSDREVVNLFHTVNPKEPRVEY IDRPRCCLRGKECCNRFQOVESRWSYS GTSDRIRFTANRRTSIVGLGLYSUHPA TDYQVNIQIEYEKKQTLGQNDTGFSCD GTANTFRVMFKEPIELPNVCYTACATLA KGPDSHYGHKRI*RKVVHGGHLLASKD CFFLF*/F/ALGINNGTSIEDGQIEPIIYFT
4554	12605	A	546	138	257	IFLLYLKNKVQNK*EIKQHFLGKIMSRDN NTYLTWGTEN
4555	12606	A	5460	69	418	LKSKLSDYKINLQKSVTFVYTN*SN*SEK/ QFKKEIOFTNSCKDN*KNVLGINVIKEV/K /DLYN/ENY*ILIKNEKNPKK/WRAPCSW FGRINIVNKPULPKVGYRSNAIPMKMPV TSRTRG
4556	12607	A	5461	2	216	YLFYLLPRLKCSGVITAHCSLYLPQSKY PPHAS*VAGITGPAIMSS*YF*FFVETR FFLCSPGWS*GSSSDPASASQSIKIGVS HCTCPRNFRNRLAQSLHFTGETVPRKK GDLPWVYRQTQ*IPGPHRCQVLA*PK DFLLSPHIVYSTSILWPPPA*AAAEVQWC DHSSLQPLPPRFKISSPLSLSSWNHRSCH HVQLIFILFCRDKVLVPVFRVLVRELO
4557	12608	A	5462	59	403	KRGFNFGAPDKREWEFG*VLKFWLPG* NNFSGQTLRRSGD*RTKTPHGGVNLVF*E KTGFSNLGRGGLKPPPSGNTPA WPKGV GITGASSPPVFCFLGFCENTNLRAKKK FI
4558	12609	A	5463	1	242	

4559	12610	A	5464	15	276	ASVTQAGVQVHNLGSLQPPPPRFKQFSC LSLSSWDYRPPCPPTNLFVLVLRMV SIS*PHDPPASASRAETGVNHHARPGLF L
4560	12611	A	5465	2	309	EQKFNKQKGRRLRCRGLSGLSCSK DVKVSFSPVARLQCSGLIHAHCNHLHFG SDSPASAS*VVGTPGQIRHHAQLGFVFLV EMGFHHVGPQMVFOLDLTSG
4561	12612	A	5466	1	1209	GGIPALDKNVAELTVMDVYDILSLVGHE VERVIDQHGCEAIARLMPKVVRVLEILE VLYSRHHVAPELDELRIELVPLRRVRM DLIEKERKHQKLELVEDVWRGEAQDL LSQIAQLQEENKQMLTNLSHKDVNFSEE EFQKHGEMSERERQVMKKLKEVDKQ RDEIRAKDRELGLKNEDVEALQQQQTRL MKNHDLRHRVTVEAQQKALIEQKVE LEADLQTKQEOMGSLRAELGKLRERLQ GEHSQNGEEEPETEPVGEESISDAEKVA MDLKDPNRPRTILQELRDVLHERNELKS KVFLQEEELGLL*E*RNCRGKPTNTPTTH RPPEDGPPSRSGIKATCLASFPEVKKR LGQTHRGVNHQGVPLDKLGKHTAMT GYTEORTGSPCSIC
4562	12613	A	5467	1	388	FKDPEAVRALTCLLREDFGLSDIPLERL IPTVPLRNLNIHVVEDLIGHQSDSKTLR RGIDIGTGASCIYPLL GATLNGWYFLATE VDDMCFNYAKKNVEQNNLSDLIKVVKV PQKTLMDALKGSI*V*SMTFMCMNPPF FANQIGSQVE*/YSRNP RP PPSSVNTGGI TEIMAEAGLEFVKRIIHD SLQKKRLRI DMAALLIGVCSEVSGRKDWIQQAPRW YSCLGKCKSLAPLKEELRIQQVPKVTY TEFCQGRIMRWALAWSFYDDVTVPVHE GRLAVGGVTSDSQNKGSASPPSKRRKLE KPRKPITFVVLASVMKELSLKASPLRSET AEGIVVVTTWIEKILTDLKASINEFPVEK RKSAFS*RP*KTPGFI*GERKESV*SDSKS TLRRDIGDIGTASCIYPLL GATLNGWYFL ATEVDDMCFNYAKKNVEQNNLSDLIKV VKVPQKTLMDALKGSI
4563	12614	A	5468	72	680	LEEP RPQSLEGHTEGERAALPGKAKVVE GRVADDGVPQGAWPAPPHITAAFQPV HALGSTRASQQGSLGDC*ACR*Q*KAP *VPKQGT*QERSSTK/PRAVPSGHWAGG SGCRCSE*RAALG*TTPEQQSGELPGPPW PLEGAAHPLSAETGSCVPPRAFSGGQKQ PRGPG*AAEGPHGDFPQTGDRHCPPSSTE PSGMTGR
4564	12615	A	5469	259	373	
4565	12616	A	547	5	960	PTFSRAVATMFSRAGVAGLSAWTLQPQ WIOVRNMATLKDITRLKSIKNQKITKS MKMVAAYAKARAERELKPARIYGLGSL ALYEKADIKGPEDKKKHLLIGVSSDRGL CGAIHSSIAQMKSEVATLTAAGKEVML VGIGDKIRGILYRTHSDQFLVAFKEVGRK PPTFGDASVIALELLNSGVEFDEGSIFNK FRSVISYKTEEPWFSINTVASC*QHGV YDDIDADVAAKIQEYVNLNIIYSLKE SITSEQSARMTAMDNASKNASEMIDKUL TLTFNRTRQAVITKELIEISGAASSVKKE NSAS
4566	12617	A	5470	1	336	

4567	12618	A	5471	1	1396	GAHAPHNPVMPASMGSAVNDALKRKDK DAIYGHPLFLLALVFEKCELAICTPPREP GVAGGDVCCSDSPNEDIAVFAKQVRAE KPLFSSNPELDNLMIQAQVLRFHLLLE KQHELCDMPCHRYTSCCLKGKMPIDLVID ERDGSSKSDHELSGSSTNLADHNPSSW RDHDDATSTHSAGTPGSPGGHASPQSGD NSSEQDGLDNSVASPTGDDDDPDKD KKRQKKRGILPIVFPANIMRAWLFQHLTH PVPSEEQNIQLAHDGTGLTIFQVNNWFIN ARIGIVQPMIDQSNRAGFLDPSVSGGAA YSPGQPMGSAFVLDGQQHMGIRPAGTY EWDGA*HWAWMGNGTTC*PSSC*RHSQ SKGEVCRAWPGDYVSQGGPMGMSMAQ PSYTPQMTPHFTQLRHGTPNAFHILPSL PHHPGLD*LHGGTPTYPTWD*LC*AQSPT MLNSVDPNVGGQVMDIHAQ
4568	12619	A	5472	3	862	TMRPDIDNSQAHAHQPPGLPNSRKLKKT RRQMCCVQTKKRIARLPCCRNTPPTAR SHPGRDCAKPNT*SLRSPGGDCH*QNGT TWRMPMAR*LSGDESGRSPVRTICHQP SRSQSPVDRLLQQLPASQSTQLPCSSSPQ ETTQSRFMPPEARLLIVNKNAGETLLQR SARLGYEGSVLYCLENKICDVNHRDNA GYCALHEACARGWLKFPVRHLEYGAD VNCSAQDQTRPLHDAVENDHLEIVRLLL SYGADPTLATYSGRTMKMTHSELMKEF LTDLFK
4569	12620	A	5473	1	444	KLLRWLRQENCLNLGGGSCSELKSHHC TPPWMIEGDSI*KKQNKTKTRKRKPPQS HS/TLSGGPDWV*QNCVSVQVLPISHFPL LQDILPPLPYLGANGQAGEQGATDGH*/R TTTESHRASVGCRIPLCQRFLALALSFF LCEMRTIP
4570	12621	A	5474	2	330	EMSFALVAQAGVQRHNLGSLPLPPGFK *FSCLSLPSWDYRYAPPTPANFAFLVE TGCLHVGGAGLKLPSNGNLPTSASESAG IIGVSHCAQPGTATHSNTVLSGLFC
4571	12622	A	5475	2	363	ELDTLCDLYEP*PSPSIIFNTRRK/VDWLT EKMহারদফটবসামহগদমদকর্দবিম REFRSGSSRLTITDRLRIGRGRGRKG VAINMVTDEDKRTLRIETFTYNTSIEEMP LNVADLI
4572	12623	A	5476	112	434	ARGIDVQVSLVINYLDPNTRENVIHR*A *TWNTPLPIHTWPSLGLKLIPLFLVFQJ IGRGRGRGRGVAINMVTDEDKRTLRI ETFTYNTSIEEMPLNVADLI
4573	12624	A	5477	3	724	NSNVEREEWKLDTLCDLYETLTTQAVIF INTRRKVDWLTEKHARDFTVSAMHGD MDQKERDVMREFRSGSSRLTITDLL/A E*RELLAKAEGRIQDLSKGTSVPLFKV AAWNIIWHA*GLWGTGMLISSAFLGCPH GCLSVFPFG*SVLRAHAELSFLTHARGI DVQVSLVINYLDPNTRENVIHRIGRGG RFRGRGVAINMVTDEDKRTLRIETFTYN TSIEEMPLNVADLI

4574	12625	A	5478	1	1274	MSASQDSRSDNGPDGMEPEGVIESNW NEIVDSFDDMNLSESLRGIVAYGFKEPS AIQQRAILPCIKGYDVIAQAQSGTGKAT FAISILQQIELDLKATQALVLAFTRELAQ QIQKQVVMALGDYMGASCHACIGGTNVR AEVQKLQMEAPHINVTGPGRVDFMDLYR K/YTLPK/YTKMPVLDEADEMLSRGFKG QY/IDISKRLNSTTKVWLLSATMPFDVL EVTKKFMRGPPFRILVKKEELTLEGIRQF YINVEPEFENLDTLCDLYENLDHHPRQ VIFHQPPGKGVWDVLSPEKMHARDFTVI SAMHWRFPWTQKERRT*L*REFRSGS*PE F*ITPLTLPQRAFDVASRVSF*SKLMTL PPPTRGKLLIHRUGSRVDRFGRKGVPINM LTE/EKTKRNLIEDIEFVYNTSIEEMPLNV A
4575	12626	C	5479	114	302	MKEEILKKTAEYKRAMXNKKQKQKHS WVXKAPSRPFKWTETRLGLKTAHSPNVF LQQGOR**
4576	12627	A	548	1326	1780	YLSKLPYFELESIAAARSPTAQRHPRER KLKPARJYGLGSLALYEKADIKGPEDKK KHLIIQVSSDRGLCGAIHSSIAQMKMSEV ATLTAAGKEVMLVGIGDKIRGILYRTHS DQFLVAFKEVGRKPPTFGDASVIALELL NSGYEFDEG
4577	12628	A	5480	1	2043	
4578	12629	A	5481	153	332	QTFVLAEGKH*ENE/PVFKLNVSPLEW REGAFPPKSDVSASFISIALLYNSAAFSSK PPS
4579	12630	A	5482	2	904	HILLVNLKHLQLCTRNKRNFILFHRKK SFMGHORAIAKKGNLYGFALLRRRALQ VEELTLGKDTDPNARTLNLGGLYYLQN NLELATDQVLKRFL*MRERVLGPDHPDC AQALNNGAGSYAMKKQYDKPEDLYK RALDIGRRALAPDHPFLAYTVKHLAILY KKMGKLDKAVPLYELAVEIRQKSFGPK HPSVATALVNLAVLYSQMKKHVEALPL YERALKIYEDSLGRMHPRVGETLKNLAV LSYEGGDFEKAELYKRAEIKEAETSL LGKGAFSRSHSSGDTFSLKNQLHFS
4580	12631	A	5483	2	331	PGQHGETLPLLKIQKVLAGQGTSLS*SEPL RRLRQENCLNLGGRGCSETRSCHTLV WVTGRDSISKQKTAVDQAEERVSELEDR LFENTQSEKTEKRIKISTLRGFRK
4581	12632	A	5484	26	117	AKGQVALGRPGARMQGGSKVVGVLAG PGSRSEAGTVPSYPAAQTRPHPPQPLLI RSPGVVPNGHQGPPNSTASSKQCNLRC WGLPTVARHPKSGQRPPQ/PRPTR*PGSP QGPTPGRKNPERP*L/VQ*PCWAREPV
4582	12633	A	5485	111	270	
4583	12634	A	5486	240	406	
4584	12635	A	5487	128	657	ESESYWAICSRKRSPLVSSYGGHIYLLKIR CPVDSVGRGRGLTIFEDVSGFGAAWHR RWCVLSGDICISYWAYPDDEKRNPIGRI NLANCTSRQIEPANREFCARRNTFELITV RPQREDDRETLVSGQRDILCVTKNWLS ADTKEERDLWMQKLNQVLDIRLWQPD ACYEPIGKP

4585	12636	A	5488	1076	3513	IKALSSSAEDASLVNASISSSVKATSPVK TTSITDAKSCGQNPPELLPKTPISPLKTGV SKPIVKSTLSQTVPSKGELSRREICLQSQSK DKSTTPGGTGKIFLERFGERCOEHKES PARSTPHRTPIHTNTKAIQERL.FKQDTS STTHLAQQLKQERQKELACLGRFEDKG NIWSAEKGGNKSQLETKQETHCQSTP LKKHQGVSKTQSLPVTEKV TENQIPAKN SSTPEKVIRESMSVDDDDINSSKVINDL FSDVLEEGELDMKESQ/AGDGSISR/TA AKNRKMH*ISPOCLYLHHWHKQLV-V* CPHLDWN*KTPAEVMKVQNOENSKELV SRRAESGDSLGSERDRLLYRSORFKETE RPSIKQVIVRKEDVTSKLDEKNNAFPCQ VNIKQKMOELNNEINMQOTVIYQASQAL NCCVDEEHGKGSLEEAEARLLLIATGK RTLIDELNKLKNEGPOKRN*G*/AFSEF IAIPKDOFTLSEIRLP*KADFCVSTVQKPD AANYYYILKSRSENINVAIPLASTNS LNGDALFTTTITLQDVSNDFEINIEVYS LVQKIDPSGLDKKKTSKSKKNIHSSV MASPGGLSAVRSNFALVGSYTLSSSV GNTKFEVLKVPFLSSLEGHVILKRCQV SSVEERGFLGCPGGGLQPKRQITFEDYS GFGAWHRRWCVLGNCISYWTYDDEK RKNPIGRINLANCTSRQIEPANREFCARR NTFELITVRQREDDRETLVTNAGTHSV FTKNVLVSADTKEERDLWMQKLNQVLC DURLWQPDACYPIKGF
4586	12637	C	5489	135	206	MFIFAFGKSIKIFITTFQSTQVIG*
4587	12638	A	549	20	403	KVQGFPHASAHASGEGSLTIPTVTRSPLAT MNHIVQTFPSVNSGQPPNYEMLKEEQEG AMLGAPHNPAPPMTSVIHRSETSVPDH VVWSLFTNLFMNTGCLGLITFVYSVKA RDRKMGRRTRPGAQG
4588	12639	A	5490	67	388	DAVFA/GAMPTMASVKLSLTHPIVNHPI YEDADLRPGCSMLEIWDVEDPSNAANPP LRSILLEDARPKMPVFQNSVYRVLKVN* EGNYPLHYGTMPCKVKNHPLAYLH
4589	12640	A	5491	3	107	SIKLSLTHPIVNHQYEDADLRARTKIV YSTYSRTSAKEVRDKLLELHVNYYVLEE AWCVVRTKFIQDGPVGLAAEK*QCM VTQIVKKYSNALEM/PGCSMLEIWDVED PSNAANPLCSVLLEDARPYFTTVFQNS VYKVLKVN*EDADLRARTKIVYSTYSR
4590	12641	A	5492	3	289	YYLSPPEMGAIFEDPAHVVVYIIFMLGS CAFFSKTWIEVSGSSAKDVAKLKEQQ MVMRGRHRTSMVHNLNRPVKLRRWK GEGRIHTKRILFY
4591	12642	A	5493	2	652	RVDLPKISARYRGQYSSYPKIFLYTSNPH LQSALVSNLYVISOMLSVRFSQNFVNL LQQWADVSGGPGARSYPVGGLCYILSP PESMGAIFEDPVHVVVYIIFMFGSCAFFS KTWIEVSGSSAKDVS*TA*KEQMVIMR GHRDTSMPHIELNRYIFTAAAFGGLCIGA LSVLADFLGAIGSGTGILLAVTIYQYFEI FVKEQAEVGGMGALFF
4592	12643	A	5494	58	596	KFIFRDGGSLLCCPSWT*ILGLQSSHMSL PSDWDSRVRAIKPNPFSS*HSFSALEYM HLRPSPLNFIQPCRFYKGPAGLSRGRE* HGL*SDFSVANLWQLGFLWQALITDYRA ELPGMDPISTHLAKLYDNLLEQNLIRVIE PFSRVQVRTLWGLHFWPGLITVATSLPH LSRMGTIFH

4593	12644	A	5495	1	279	51	PRVPRVPRVPRVSSRPRSRDPSRRARLR WOLRWKPRWCPRPKTPGVWKPRPTRP RSSAGOSTGPPSPFLRRSPSTRRRSSRKA SPTATRATGTPPRQAQKRTARAAGRRRA SPGIATAGTRSMISMWRGRKPSNPNSWEG RTNEETSLSRLKPVSPGTTICPLRTPGSL LKDSKIPISIKHLNLPSSHPVVHQQPSRS EMPRTIKIPVSVLVRVRVSNRGLAGTTIR ATACHDSAQKVVRSSRPWGMGPMPRINT TPFWETTKVSFAFFKESLL/WTPVPVPPA PFRGPRRSLCFE*GPDNTRKDRATRGFL LSR
4594	12645	A	5496	1	279	51	VQVHDLG*PQPPPPGFKRFSCLTTP/RSS CDHRCPPPTPD*FLCLF VETGFHYVQGA GLELLTSGDPTLASQSAAGIAGVSHIARP NLIFFFN
4595	12646	A	5497	2	291	51	FLVARVAGSGDGLTFPRLECTSVITAP ASISWAQGDLPASASQV AQTAGACHHS WPVFTSCVEMGFPCVP*AGLELLGSSPP POPPKMFRQLQA
4596	12647	A	5498	2	345	51	SHSVAQIGVQWRDLGSLQSPSPGFKRFS CLSLPSS*DYRHAPVHPANFFLVEMWL PRVSQDGLDLLTSLDPSASQSTGTGM SHRARPNFCISDRDRVSPCWVWSQTPD LR
4597	12648	A	5499	2	311	51	QVLENPHFFRG*APFPWS*YPSGFYKSNR PRACFNPRSLAPRGPHQGFPPGPLFPP PFFLGPPYGSRRFSEHFQKVQFLNQPPF LSLKNPP*RRFFFP
4598	12649	A	55	730	950	51	SFLKDIGLFKIYFFFFFETGVSFCHPRLE CSGETMAHCSLTSLOGPDPTTAS*QAG ITGVHHHARLIFF
4599	12650	A	550	2	431	51	DAWAMNHTVTFSPNSVSGQPNVHNR LKEEHRVGCAGAAFTLFFP*ISTLIHNQ RDLPCPTHVVWSLFTLFMN*CCLGFG *EFAYSVKSMDRKMGVDVTGAQAYAS TAKCLNIWALILQULMTILIVIPVLIFA YG
4600	12651	A	5500	1	2500	51	MEDA WGIRKETGRVKEEAEKVGTGWN NWRNVKSSMSRKAAPRGPKKLPMT SDIPPCKTIKDLLPEKSSTEAVFHTVVL ERHESPDIEDFSFKEPQKNVHDFECQWR DDTGNVKGVLMAQKEGKRDRDRDRDIE NKLMMNQLGVSFHSHLPQLFQGEKG MYECNQVEKSTNNGSSVPLQOIPSSVO THRSKKYIHELNIHFSLLTQRRKANSCGP YKCNCEGKAFTQNSNLTSRHRRHSGEKP YKCSIECGKTFTVRSNLTIHQVIHTGEKPY K.CHECGKVPRHNSYLATHRRHHTGEKPY K.CNECGKAFRGHSNLTTIHLIHTGEKPF K.CNECGKLFQNSHLISHWRIHTGEKPY K.CNECGKAFSVRSSLAHQTHIHTGEKPY CNECGKVPRYNSYLGRHRRVHTGEKPY K.CNECGKAFSMHSNLATHQVIHTGTPKF K.CNECSQVFTQNSQLANHRRHHTGEKP YKCNCEGKAFSVRSSLTTHQAIHSGEKP YKCIIECGKSFQTKSHLRSRGLIHSGEKPY K.CNECGKVFAQTSQLARHWRVHTGEKP YKCNDCGRAFSDRSSLTFHQAIHTGEKP YKCHCECGKVPRHNSYLATHRRHHTGEKP YKCNCEGKAFSMHSNLTTHKVIHTGEKP YKCNQCGKVFIQNSHLANHQTHHTGEK PYRCNECGKAFSVRSSLTHQAIHTGKK KPYRCNECGKAFRRQGVTPGPSLECNGT ILAYSSLKFGSSDTHISLLRSQDDROVL PQLANPNFREGLLPAFLLLCSDSHFLQFC SOFAPRKTQGSVNNIQANLAK

4601	12652	A	5501	1	2508	MPHOLGPNLVPDIPPKCTIKDLLPKEKSS TEAVFHTVVLERHESPDIEDFSFKEPQKN VHDFECQWRDDTGNKQVILMAQKEGK RDQRDRDIENKLMNQGLGVSFHSHLPE LQLFQGECKMYECNQVEKSTNNGSSVS PLQOIPSSVQTHRSKKYHELNHFSLLTQR RKANSCGKPYKCNCECGKAFQTQNSNLTS HRRHISGEKPYKCNCECGKIFTVRNSNLTH QVIHTGEKPYKCHECGKVFRHNSYLAITH RRIHTGEKPYKCNCECGKAFRGHNSLTTTH QLIHTGEKPYKCNCECGKLTQNSHLISHW RIHTGEKPYKCNCECGKAFSVRSLSAIHQ IHTGEKPYKCNCECGKVFRYNSYLGRHRR VHTGEKPYKCNCECGKAFSMHNSLATHQ VIHTGKPYKCNCECGKVFTQNSQLANHR RIHTGEKPYKCNCECGKAFSVRSLLTTHQ AIHSGEKPYKCNCECGKSFQKSHLRSHRG IHSGEKPYKCNCECGKVAFQTSQARLHW RVHTGEKPYKCNDCGRAPDRSSLTFHQ AIHTGEKPYKCHECGKVFRHNSYLATHR RIHTGEKPYKCNCECGKAFSMHNSLTTTHK VIHTGEKPYKCNQCGKVFTQNSHLANH QRHTGEKPYKCNCECGKAFSVRSLLTTH QAIHTGKKPYKCNCECGKVFTQNAHLAN HRRHHTGEKPYKCNCECGKAFRVRSLLT HMAIHTGEKRYKCNCECGKVFRQSSNLA SHHRMHTGEKPYKCEGEVIRYNSLSH QLNHS*QNPYKCSDSGQSLMS*SNRYER P*ARD/YHVNICGRGSIQASQVTRHQDFI SLMKRNNKCNMHPEAITQ*PMVSEDS
4602	12653	A	5502	3	361	PKKNYFPLHLKGPCTKGVFFYSSSSSQK GVSLCNPWRNVAVGPPGFPTSPVLVK*F LCPNPWS*CDFRPPSPRGYPCFFNKKA LLARVFN*PQVPLFQPKMVGFGGLT PLAG
4603	12654	A	5503	32	392	FLFLSFPLSFKMTLNDAMRNKARLSITG STGENRRVMTPEFPKAVHAVPFT*SPGH GNGMSSVTSGLGLIRTLALSALPQWFSC VFIVQSGERHPSILEDIFSQPKNSLNMWS SILKL
4604	12655	B	5504	473	524	MGEAKKTGEQVRVLPRTX*
4605	12656	A	5505	1	627	LVSSFFFFFCRDRVSPCCLGWSPTWSPG LKRSARLGLPQCWDSRRELPRPAYLLFL LSWGSPPSPA WQEGG/WCKKKRGTEHPE VPSIPSTCTPSPVQQ*S/GEKQVQETGRQ S/LGEAKTGVQWHDQGSLOP*SLGK*S SYLSFLS*DHRCAPTTPD*FL*R*DPITML PRLVLNSWAQ/CDHPALASQSTGIUGLSH RAWACDONSHFF
4606	12657	A	5506	3	649	RVSSVMSTLEIFNCIFDAHVPLWGKA YPSQKPLAAWTRDLAMRVEQELWASR ARPPVIFWLSGFTFTPTGFLTAVLOSSARQ NNVSDLSWEFIVSTVE*QAT*VYPKDK GCWVRGLYLEGAGW/DPEELLGGRQS PCKLVWLMPTIHRPAESRKKSPKGMYS CPLYYYPNRAGSSDRASFEVIGDLRSGA MTPDHWIKRGTAALLMSLDS
4607	12658	B	5507	167	377	XXLIQFGLMKNLJRRLOQKYPRVTRREEQ SHPARLYTGCHSYDEICCKTGMSYHELD ERLENDPNHICWK*

4608	12659	A	5508	2	1247	<p> TPLREERGATGLGPVIAMGSGCRIECFIFS EFHPTLGPKITVQVPEDFISRELFDITVQV YITKPELQNKLTITVLESSFVSMESKQK LVPMTILLEELNASGRCTLDIDESNTIHL KVIEQRPDPFVAQEYDVPVFTKDKDEFF NSQWDLTTQQLPYIDGFRHIQKISAEAD VELNLVRIAIONLLYYGVVTLVLSILQYSN VYCTPKVQDLVDDKSLQEACLSYYTK QOHKRASLRDVFQLYCSLSPGTTVRDLI GRHPQQLQHVDERSEENLGLHGVTK*GK LDPLCLSGALDHGALPQAGFLEMMGYR DKIEGRIQERVGLPERRPGQVTPSSDP HPRKLIQFGLMKNLIRRLQKYPVRVTRKE EQSHPARLYTGCHSYDEICCKTGMSYHEL DERLENDPNIICWK </p>
4609	12660	A	5509	1	512	<p> CTLPIDESNTIH*KVIEQRPDPFVAQEYD VLVFTKDKDEFFNSQWDLTTQQLPYID GFRHIQKISAEADVELNLVRIAIONLLYY GVVTLVLSILQYSNVYCTPKVQDLVDDK SLQEACLSYYTKQGHKRASLRDVFQYD EICCKTGMSYHELDERLENDPNIICWK </p>
4610	12661	A	551	137	838	<p> SSGICALIWPWPAHLTNARKRLRLK RNYWRKGEGLRTPVTRSLVTMNHIV QTFSPVNSGQAPNYYMLKEEQEVAM GAPQKPCLEPCPPVHHRSETSVPDHV WSLFNTLPMFMT/CR/LGFIAPAYSEVS GTRKMVGCVTRAQGLLPPPKCLNIWA LILGUFMNQFLINHPSPVSGSRPDSRG RHHLRPRELCPVEPVSQVKNISIFHSLALP PEARKFCF </p>
4611	12662	A	5510	1	474	<p> HTIHLKVIEQRPDPFVAQEYDVPVFTKD KEDFFNSQWDLTTQQLPYIDGFRHIEKIS AEADVELNLVRIAIONLLYYGVVTLVLSIL RRLQFGLMKNLIRRLQKYPVRVTRREEQ SHPARLYTGCHSYDEMCKTGMSYHEL DERLENDPNIICWK </p>
4612	12663	A	5511	199	562	<p> KESPGGRHPVPLIHP*ES*IPVRL*KN LIQATYRKYPVRVTRREEARHAPRLYT CHSYDEICLQDRWRQAGSQGFRAGCA RPRPLTSPPPHFGMSYHELDERLENDP NIICWK </p>
4613	12664	A	5512	1	1224	<p> EFGTRPLREERGATGLGPVIAMGSGCRJE CIEFSEHPTLGPKITVQVPEDFISRELFDIT VQVYITKPELQNKLTITVAMEKKLIGCP VCIEHKKYSRNALLFNLFVCDQAQKTC ALEPIVKLAGYLTILESSFVSMESK QKLVPMTILLEELNASGRCTLDIDESNTI HLKVIEQRPDPFVAQEYDVPVFTKDKED FFSQWDLTTQQLPYIDGFRHIQKISAE ADVELNWVRIAIONLLYYGVVTLVLSILQ YSNVYCTPKVQDLVDDKSLQEACLS YVPKQGHKRASLRDVFQLYCSLSPGTT VRDLGRPPSSCQHVDERKLIQFGLM KNLIRRLQKYPVRVTRREEARHAPRLYT TGCHSYDEICCKTGMSYHELDERLEND PNIICWK </p>
4614	12665	A	5513	2	313	<p> FETESYSVAQAGVQWVDLGLSQPPPPGF KRFSCLSLSSWDYRPPPRLANF*FLVE TGFHHVGOAGLDLTS/GDPLASASQSA GITGLSHCAWQTYITFNH </p>
4615	12666	A	5514	731	1156	<p> SVLGLISDTSNTLSFFFFEMESHSLAQ PLQWHLGLSQAPPPCKRLPGSRHSPA SASRVAGTTGARHARLWFGFLVEAGC HRVSODSLDLT*STCLKP/AQSAGITR EPPTGLFFFLKMESCSVGLRGVQSW </p>
4616	12667	A	5515	3	365	<p> LLNSRPVDFFFFFFFLSHSLDSVVQAGV QWNLGSLALQSPPPGSMPPSCLSLSS WDVRHPPPYLANFFFFCIFSRL/MGFTML ARMVSI*PCDLPALGSQSAGITGVSHHA </p>

						WPAYFYQ
4617	12668	A	5516	400	619	MPEQICPLETSQS*INNLPKFFMSJ*CP GFERSYFFF*CC
4618	12669	A	5517	274	693	KYQILLYNGDVMACNFMGDEW/FVDS LNQ/KGKVEIPGPGIEPAGEEWAGMPG SQQLAAWLWAHRGQVWRNSQP*GLAG SCEQGCSCCRLMSFLVQGMVEVQRRPW VKYGDSDGEQIAGFVKEFSHIAFLTIVGT GPAER
4619	12670	A	5518	3	766	NRLWSSLQTHCCSQNKCNFYDNKDLEC VTNLQEVARI/VGNSGLNIYNI/APCAG GVPSHFERYEKDITVVODLGNITRLPLK RMWHQALLRSQDKVRMD/PCTNMTAAS TYLTNPYVRKALNIPEQLPQOWDMCNFL VNLQYRVFLFSQNSRYLKLSSQYQIL LYNGDVMACNFMGDEW/FVDSLQNKI MEVQRRPWLVKYGDSGEQIAGFVKEF SHIAFLTIVGAGHVMVPTDKFLAAFTMFS RFLNKQFY
4620	12671	A	5519	2	279	FLRDVILL/C/HPGQSUVV*S*LTVSPTLP GSSDPSSAFNCSSWEYRCVTPCQMLM*FT LLSIGISTLP RPVLNSSQVILAPWPAPKV LRLQE
4621	12672	A	552	1	528	
4622	12673	A	5520	2	1045	CPSRPCRPRPPRPGPKPRASYPGPPAP/P GDKKKRPPQ/GRPGSSPAPGPP/PQAAA GPAPRPGQDAAAAGPSGR/PQALPS/PR GPQPRAPRPGQAPATAQRGPPMRPRR GRGPPRAPP/PGA/GPC/PLRCLALLPESH PRGRPGHPEASSGEEAAGAAPQALPLTL GRTQAPTRPVSP*GRGPAEGRPRQR/PP THPPPPA/GP/PRASARRPAAARRPAGSPA QPAARGPAADAQGVAAQRAAQVRRRG VRGGARGGGRG/PRGPRGP/PGSSGRQR PLSGPSAQAGPRGAQFDPDGHGPPAL ASRQPGPSFTPVVSTPDACLCHSGLL ASPSIHAVRGELSN
4623	12674	A	5521	84	202	
4624	12675	A	5522	3	576	ILGPPFFVRWGSHTVAQAGVQWCDHGS LQPRSPGVK*SSHL.SLLGSWNHRHAIT PG*FCFFSRJRSVCVAQAGL*LLTSNHPP ALASQTVGTVGSHWTWPNTGFSVLTA TNKLNKFFHYAISKCLVRALKSSRLKIE ERNKALSAPVVSIVFDRVLRLLGYSAS DWQPEFVETA VSNFVYIGFRGQ
4625	12676	A	5523	177	904	ESHLQNDTAAHPLLNGTECGVSPPLTS RQGVVRRRTQSSSRT/SPV/KQITPPQ VLHMSAGVALDSPAPP RPWQPPQGF AHT*DRKEEGDPIGWAPEGKSC TKPPP PSLPTSPGWKRALKQGDTCGPSTAS TPHPLILGPSQAPKPKPP/PSGVPACAP S/YPALPAPSISL TEKEQARAPGGQDGAG HTVGGGAAGRREGQNKTFSGFFTSFF FLPFTLVVVLFLFSL
4626	12677	A	5524	1	173	FLGPSKFPFGPPFPFPFPPRERGNQRSS PPSSS/P/PSQKKTGVPPG*GGFFPPPP
4627	12678	A	5525	1	390	LILNTRKPAFIDLLHNDPKEQAYADLV SAYTLNSMFWLYLATQGVNPTDHPVKH ELDTT/RACMNRSSSPITDKKAGLLYRG AASKFVKNALWEPKSKNA*KVGNKGKS PTSLFGFDVLIIFKKNMLPP

4628	12679	A	5526	I	1548	MPERDSEPFNSNPLAPDGHVDVDPHSFHQ SKLTNEDFRKLLMTPRAAFTSAPPSKSR HHEMPREYNEDEDPAAARRRKKSSYYAK LRQQEIERERELAEKYRGRAKERRDGVN KDYETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDEHHTLVKGLD FALLQKVRAEIASKEKEEELMEKPOKE TKKDEDENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAVYVVCPTMEA QTILTNDIVISKLTQLLSYLRQGTNRKK LKKKDKGKLEKKPAEADRSIFEDIGDY TPSTIKTPWDKERERYRERERDQ/RDRDR DRERERERDQERERDRERERDRER/GPG SAKELIKSINEKFAGSAGWEGTESLKIAE DKKQLRDFFGMSNSYAECPATMDMD AVDSDEEVDYSKMDQGNKRTLSRWVD FDTQEDYSEYMNNEALPKAAFOYGIK MSEGRKTRRFKETNDKAALDCQWKWSIAI IEKRKKMEADGVEVKRPKY
4629	12680	A	5527	I	3162	
4630	12681	A	5528	2433	2540	
4631	12682	A	5529	I	1739	MPERDSEPFNSNPLAPDGHVDVDPHSFHQ SKLTNEDFRKLLMTPRAAFTSAPPSKSR HHEMPREYNEDEDPAAARRRKKSSYYAK LRQQEIERERELAEKYRGRAKERRDGVN KDYETELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDEHHTLVKGLD FALLQKVRAEIASKEKEEELMEKPOKE TKKDEDENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAVYVVCPTMEA QTILTNDIVISKLTQLLSYLRQGTNRKK LKKKDKGKLEKKPAEADMKYVS*PLA SDQREGVCTFLVSGILGRCHENLEKWS GGVKVYV*TPASDLHFPISFEDIGDYVP STTKTPRDKERERYRERERDRERDRDRD RERERERDR*HERERDREREKKRHSY FEKPKVILLGPWTFDKGPGSTKELIKSFI EKFAGSAGWEATESLKPKPEDKKQLGD FLGMSNSYSECPATMDMDMAVD/SDEE VDYISKMDQGNQEGGP*ARWDL*FPQE EYKRVFVTTEALPRVAFQYGIKMSIE GRKTRRFKEPQ*PKQSLIRQWKKI
4632	12683	A	553	I	1682	MDNLSDTLKKLKITAVDKTEDSLEGLCD CLLQALAQNNITETSEKIQASGILQLFASL LTPOSSCKAKVANIAEVAKNEMRIPC DAGLISPLVQLNSKDDQEVLLQTGRALG NICYDSHSLQAQLINMGVITPLVKLLGHI CQNAALTEMCLVAFGNLALESSEKQFA STNIAEELVKLFKKQIEHDKREMFIVLA PLAENDAIKLQJLVEAGLVECLLEIVQOK VDSVEKEGGITELKTGSDLMVVLGDES MQKLFEGGKGSVFQRLVSWPSNNHQL QLAGALAIANFARNDANCNHMVDNGIV EKLMDLLGRHVEDGNVTVQHAALSALR NLAIPIVINKAKMLSAGVTEAVLFLKSE MPPVQFKLLGTLRMLIDAQAEAAEPIE RMLKLVIRLVGWCEAKDHAGVMGEQ NRLLSALIRHSHSKSDVITKTVSQSGGKHL VTMATSEHVIMQNEALVALALIAALELG TAEKDLESACKVQILHRLADERSAPEIK YNSMVLICALMGSECLHKEVDLAFLD VYSKLSHENKSVRQOASLTQRLTVES YNCRPTLVSGCAGLDAQVVCQDCAFE LGKKP/PSGGEQYPSSSAIKQKPEPYAD FIARLQESLKKVIADLAAQDVLWLLAFD NANPECQAALRPIRGKAHLVDYTKVCD GIRDKLIHKATLLAQAMAGLRMGKGNT FPGACFNCCKHGH
4633	12684	A	5530	93	546	
4634	12685	A	5531	I	541	

4635	12686	A	5532	365	661	
4636	12687	A	5533	3	74	RMGPRTGP*VFPETGPPLSNLE
4637	12688	A	5534	83	262	CTVTPPPQDTGQSKS*STRVSSSLVPRSP VAPVTLRPGFEPP*WTPLAKTSSVLQW C
4638	12689	A	5535	636	698	
4639	12690	A	5536	125	340	
4640	12691	A	5537	81	1007	QPKAEHAALNLRKTFQHASHTPPFSAQQ *NPHRPHQPWL*HAI.VQHCSNDMQRPS ASGP*PPGTFSRWSSCKMPVPPPAQVPK SLCGVLSSSC*PGRSPGPAEPPSRACRP CRQDSG/PAQAGGPCRQDSG/PDPAAGGPR DKI*ASQGPLPAGERAIAPAGGPCRQDRGQ PRLASSAGGHCRLRG/PTPAGGFCRL/P QRAAPAGGPCRQDSEQLRLAGPAGRLA GRHGRSPGPAEPPSRACRQESG/PAQAG GPCRQHS/GPDAGGPCRQSLPAGPAR RRAGNPGRQPLQTQRAAEAGEPAFAT AVSGRD
4641	12692	A	5538	1	766	
4642	12693	A	5539	74	1178	
4643	12694	A	554	3	910	GRPPRVPPWLRERRRLEGGHRAAPPAPY DLRLAPPVPHRGATWQIII.SDTLKKLKI TAVDKTEDS/LEGCLDCLLQA/LAQNNT ANKCKSKSQVAILQLFASLTTPQSSCKA KVANIAEVAKNEFMIRIPCVDAGLISPL VQLLNKSDQKVLLQTGRALGNICYDSHE GRSAVDQEGGAQIVIDHLRSLCSITDPA/ NEKLLTVFCGLMLNYSNENDSLQAQOLI NMGVITL.VKLLGMVHCQNAALTEMCL VAFGNLAELDAIKLQVLEAGVLECLLEI VQOKVDSDEKEDDITELKTGSDLMV
4644	12695	A	5540	1	857	MGQVWGLVHFTLELFTQDDEEEQEYNK VTEEVTEHVYLP*A*PDVHLNQPSHQPPK AGLQLY
4645	12696	A	5541	518	578	
4646	12697	A	5542	750	797	
4647	12698	A	5543	2073	2844	IVRSLSRTAQKIRSGCPCQSW*RRGRPVG SPSQSTEGPGQVRLRT*PLPHHTHEGPG GAGRRSSSLERPTSQPHRSSQGRCPAAP ATPLPSPGQAPLQAGPFERG/PRSRA/QG APGTGVRFFSMAQPPPCSTSQPLKPCSP QELKMLRLPKGA/PDSSAPGRTAGTPPCL RCWAGSVEPLRRVRGPRRCGRGPAAAA TQWARPLCRARRGTLGGIA*PRSVAAAG SAPAAPAGAARPGPGMGPPAAVAAIAG RP
4648	12699	A	5544	3	611	SLPPRASRLPPGPSFSQWSPGDNRLKPLNT PPPPRAGPRPPSRAPPA*TPGPPSAGSWP* PPGTGSAPRGAPSAAGARRPGRPGCPPA PAGRPRVPTAGAGACSAASRPGTRPCT RPGAPRSRRRGCPGGA*PGARRPPRP RPPATRAPRSRSPRGAAPPPTPTARGA AARELVRQGP/APLHAPQQTPTAAIAP YKM
4649	12700	A	5545	3	42	
4650	12701	A	5546	1	160	SMQQTLLLSYF*KLP*PPQPSATMTQISQ QPSTSRQDPPPTK/RL*LVESGNH
4651	12702	A	5547	298	421	LHPHILPIDKLLHQ*KVVSVEYRQNEV PLYISSNLVHS
4652	12703	C	5548	598	762	MNSMIQICQDRAEIISSYCNLKIHQRLQN LLISFLQSLKKLKNVNSFINKNLK*
4653	12704	C	5549	138	296	MNLEVTVARDYLSPLVADLAQRNGNIQ EIQTRQDNKVIGFVPLAEIMVGIL*

4654	12705	A	555	1062	1421	DRVSLCC/PRLECSGMISAHCNLPSPGFK QFSCCLSPNGWAYRSVPPCANFCV/SV ETGFHHVQQAQLELLTSGDLPALASEKC WDYRREHTARGPVTKPSYQVLFRLHP IFINHLNT
4655	12706	A	5550	2	1575	AMLGTRVERCLRVLDGAVAEFDASAGV EAQILTVWRQADKHNPRIEFLNKMMDKT GAINFKYAVESIREKLKAKPLLLQLPIGE AKTFKGVVDVVMKEKLLWELQFK*WE KTLRRKAPLGK*MIPEFAGRETT*RKEC L*LEQVADLDDEFADLVLEEFCEFDLLP AEKILQTAIHRVTLAQTAVPVLCSGALKN KGIOPLLDVATMYLPSPEERNYEFLOWY KDDLCAALAFVLHDKQRGLVFMRIYS GTIKPQLAIHNINGNCTDRQTIALSVNNH EVHIYKKNGRQCVKAHLEKHEHNHITDI DWAPKHDHIVTCGADHNAYVWSQKDG VWKPTLMILRJNRATFTVKWSALENKFA VGSEARLISVCYFESENDWWVSKHIKLL IRSTVLSDLWHPPNVLLAAGSCDFKHVR FSSYIKEVDEKLASMPWDSKMLFQQLM SESGGGGTGGVWHGLDIPKQSIQRNMSA MECFNTDKRATTEGSMNAKMLRQNS ITQVSIYEVDEKDCRKYCTTGIDGEP
4656	12707	A	5551	1137	1288	RTLNLKAMASRVLRILITGR*CLDVSIKI PL*ENLGESIMVDSLMVKVP
4657	12708	A	5552	1	1851	MALKKADKQVLEFLMNLLEVTVARDYLS PVLAADLAQRGNIGIEQTRQDNKVIGF VPLAEIMVADLDDEFADLVLEEFSENF LLPAEKLQTAIHKSDTKLRQQLPVL/CGS ALKNKIGIQLADAVTMYLPSPEE/L*PM EFLQWYKDDLCAALAFVLHDKQRGPTG FYAPFNSRFL*KPQLAHSIILMETATERIS RLLLPFADQHVIEIPSLTAGNIALTVGLKH TATGDTIVSSKSSALQLVEPNGREKRS TDKTMKAERLLLAGSGRQEPVFCTIG TPITV*GSIWEHAFEMSFVRIFVLKVR LDPDSGQTCLCGMELHIEIHDRIKREY GLETYLGPLQVAYRETLNSVRAATDITLD RTLGDKRHLVTVEEARPIETSSVMPVIE FEYAESINEGLLKVSQEAINGHSACLQ GFLGSGIQDVGNYLYIP*QIHPWAPST YDFCLCKMPCKKALERKADKQVLEPL MNLLEVTVARDYLSPVLAADLAQRGNIG EIQTRQDNKVIGFVPLAEIMGYSTVLRT LTSGSATFALELSTYQAHESSRSKYTAQ EKWFDLNVLVFGRGNSGRHPRLLHFSV RNNFYCYLLGRNKGTVSGTFRGT
4658	12709	A	5553	2	499	RCQKAKFTPVNRRHRCRCGFVVCQPC SEKRFLLPSSQSSKPVRIKDFCYDLLSAGD MATCQPARSDSYQSISLSPNDMSDD DDDDMTVTKDTFGSI*SGEAL*EINFGG NARL*ALSLDCSVMNLPKELGTYYVPQYI P*KEGAPAFCHSSSTGIGCFKYIR
4659	12710	A	5554	147	315	LIPQPWQHLPLPPNISNYD*RPQKFLGL PHPCSGGRALTPHWSTGLRLTPSAQ
4660	12711	B	5555	105	508	XPGTREVEELNALQEELAPFGLVILGFPC NQFGKQEPGENSELPTLYVRPGGGV PNFQLFEKGDVNGEKBQFYTLKNSCP PTSELLGTSRDLFWEPQESSRHLELWKF LVGQMDTHIALHHRPRQQR*
4661	12712	C	5556	4	165	MCLSGNVYHLCACSCVPQCGTTLISLQF STPMIIVHLHLPKEKALPGIVILL*
4662	12713	A	5557	1	1803	

4663	12714	A	5558	2013	2024	KVAGSAGHLRRTVARDOAAAQRDPECA PTPSLARLLQASCLLSLLAGFVSQRGQ EKSMDCHGGISGTIYEYGAITDGEYI PFQYAGKYVLVFNVAISY*GLTGHVH LN*ATALQELAPFLGVLGFPFCNQG/GK QEPGENFRKSPFNPSKYGF7KVGGFCSL NFTALLRKGDVNGEKEQKFY7FLKNNSCP FTSEALLGTSRLFWFPMKVDHVRWNE KFLVGPDPGIPMRWHRTTVSNVMDIL SYMRRQAALGG*RVGCPFPFKILYFPSR VYSLGGGWSLFPQNKGSFPKFFPSRLL GPT
4664	12715	C	5559	2	226	MLLPLPPSPSTALPGLGEMGRPPPPY MLSVAPQTFCFISHSSPSHRVSFAFPSC VLPPPSQKFLHRTSF*
4665	12716	A	556	213	513	GGKSLARRVPKGRMDGLNPRESSKFIA ENSRDVFIDSGGARRVAELLAKAAGPE LRVEGWKALHELNPRAADEAAVNVWF VTDTLNFSFWSEQDEHKW
4666	12717	A	5560	2	1308	ALSLALPPASP/AGRGRFAGPGPAPLP WHQGLPLTRPGPEG/PLPQRLPSPLQP TPAQPLLLAPFLLPPAPGPRRVGFAFWC P*SPGLSPPGLPSPDFQTLPCGISFLPEMR KLESWSPAGEPSPPPAPATRVSSRMQLP DPLTLPPAGPKATFNSYGV/PPAPE/PS QGRVVRGHPEPTGPLLHSSQGQEAAPLP GPCCYGDTAF/PRTEGPPSLPTTRARLSS PPPRFADVVVCVLSVSLVLCTPSLLVPM */PHPCCTGSLSSWLPLLMLLPLPPSPS PSTALPGLGEMGRPPPPYMLSVAPQTF CFISHSSPSHRVSFSAYPECVLPPP*APA WAQDPILPARVSPPGRVFPFPC/PPSHPT PGSEAPHS*PSVFLRKWLKATGPAPQPSA PPKPGNLGPHKPLWKLFCASHSPRSFC TELPF
4667	12718	A	5561	3	259	FLFWVFQIPAPFPEYVTDLCICTPSASP GYLLAIGRDKAQR/LWERLRVVFQRLR DGA*AGEAGGSTPNTVTMEMQCPGNA S
4668	12719	A	5562	2	329	AGVQWRNLCSLQAPPGRPSFRLSLPSS QVAGTYRRPPSPANFLYV**RGGFTTV NQDGLDLTSGSWPASASQASIGSVSHR AQPSFTFFRLACHVFRHCHLPT
4669	12720	A	5563	3634	4389	LIQFLLHSIGLYSYTTICLIFILLMEYWL FPVFSYYYYYFFFLRSLALSPGWSAVV QSRLTATSASQVQTILLQPPE*LGLOVC ATTPS*FLYF**RRDFTMLARMVLIS*PR DLPTLASQAGITGVSHRAWSFLVLFVF *TESHSVAQAGVQWHDLSLQAPAPLRF K*FSLCLSPSSWDYRRPPLRANFFVFLV ETGFCVHGQAGLELLTSSDLALASQSV GHTSVSHHTRPGMSFFITSHKL
4670	12721	A	5564	1	369	LQFPAPGLNQSSLLSLLSSWDYRHMPY PANF*YFPETRFCHVAQTGLELLSSDDP YSASQASAGITGVTHRA*PRFTLCTGLIRG QHGEKGLAQGHNVRASSSIQGSVVTWG LRGLFFPHH
4671	12722	A	5565	161	231	

4672	12723	A	5566	1	1401	MOIFDYNSEITDPGICQEAAGLEGTRKP WNISMILLTRNLSLQWFSKCPEDPTST SWGTPQKEHCHLVNKVGVDSLRMRGY MHGIIQPLNLFOESQLMPQTLFPFHNFQ CFEEELHKWRCPDYIENNVKMQLPFS SKLLGSTLTSEEKQERRQQQLRLQELN ARRREEKLQDQERLDRLLYVQELLEDG QMDQFHKALELNMDSPHEELQSYIQKLSI AVGAG*AENPPSGSQPR/EWDVVT/TA RPLTWEQLPSPLEDVESMINDFDLFS D/TLEWRSRSP/RVPVFNLAAYHQLFV TERIRAEIIFQPSLIGEEOAGIAETLQYL DRYPKDIQEMLVQNVFLTGQNTMYPG MKS/RMEKELVAG*DPSSLFSKYNLAS CAGM/DWYGGGLVNWALNHLDDNEVVI TRKEYEEKGGEYLKEHCASNIYVPIRLP MSCLPLLRCPRHPSQGSAAAGGGGAG
4673	12724	A	5567	2	131	MKTNGYQGRVQWLTDLVNLKSRPVQS SRPSLGNMVKPPSIQKLGAWVACTCCP SYSGAGAGGWHEPRSLRQ*
4674	12725	C	5568	170	394	DRKGLESPPEPPSDCRPPGMDLLAIS/PV LLAPSPQPVQSPWSPG*CGRQAPCVLES GHSAGAGVSSWDGPVPVCKCPHPGLSQ AHPGKTFGKNLHMVPSGGAQAPGPHK ANQQSWPCPPVPRSRPTFSHLAENPME RKSFACQSGAGNWQRKVSNNHPWELQV FESF SRPCVKNGRAAGLVTOGFRFG
4676	12727	A	557	584	827	FLYLFIFFTGSHSV/ITRECGDITMARC SLNFPSSDPPASASWVAGTQGLVYHT WLSFAFRRDGVSRAVARGQLLAW
4677	12728	A	5570	3	312	FFLNROGLALLLKLEYSGMIDHCKPQIS GAQVILPVSAWVARPTGVVYHHA*LIFF KWGREVETESCYVAQAGLELLASSDPPT STSORAWITGLSHCAWPA
4678	12729	A	5571	1	121	IFHVLKNCQTRSIYALMSFKNEGEIKMF SNQKLKEFTDRSKLQEMLNAL*AERI YY
4679	12730	A	5572	2	228	FETGSHSIFWAGVQWYNHSSLQRLPGL R*FSLHLSPSSWDHCRCTPPRPNFISFRD GFSSC*SGWSQTLGLK
4680	12731	A	5573	1	1896	MVSGQCRSREMRDAHAGWDSPTIALHM ARGLQRRVFSAPRHEGGTDPGNSHLS NQKMEKLETKGQQLRQGLCVRSRDR TVRSVQETITATLTKSLGTICRGTRN LLTAEGFMPHASVCISKSGKVARNTVQ GFTAHGKAVLEAAVSAAGPATWGCLR IKWPRSVSWLLKPERAAITVGHGCRKS GCPPGLGSAKM/PPRHQSAAPAGRGRC PCWGPEPTSGLSNQQWLPGLAHAPPLP SAPLLGPPLLSRTVDTGPGSGREVEATT CGRRLLKDKDSEHAGASRIHQSOVTGS LGEERA VRAESPGEGPAEFLRRIOGAVQ TRAVTAGSSVEKINTIKLETCDCEASEE VLGGDNVETEERSVCPEP/KMTLFEKR VFADHICLARWAPAAATNRRLVNTLIPG HGSPCSLVAFL/APSPRPYP*PAARCW ASDFPERGKRLRAHSSFPVPAPPCVPVQ SQSGPLPCTPRHPLFPAPAFGICRGPR APGG/SKAVATQRPWWLYAPGTAPGGL PW*/AVPGHNKSIPPQVSNLIEPLNAP QSSWAALGSKRLGQCGSHGF/AFSTAD VCTNDDTILSNANSLTEVLATEIKHDINLA NEGLAWDRGWDVYQGGDMLSL

4681	12732	A	5574	1	475	FWKSPYSVQPRTEARAQGNKQKEFRET APGSSKADTKSEHLWALLPSRRWGS QTQHPPLAREPQJLACQPMKDIRLADWS TPLLSNPS*KLP*ICQSCPLEQEGKQA*D ARGVPSFPELQPPSGLTAQGGQTHRHPD LRMTCGRTWHEFLAKTLH
4682	12733	A	5575	2	468	SRGILADPPRFGGQPDFQP*PTRVAALS GLSNQDSDLGHLMRQPOVPAGPEAET AASRTALPCAVNPWTYLRATLPDLDCIQ TEACGMKPSAVSKFLVPRQYVPRLPFKV AVMAVVSCTLRTVLSLTLTHSPCRSCL QPFVSVSISLWFGDK
4683	12734	B	5576	90	1686	XWWEPSFPQQRDSKVTGLQRAAFNP VAPTHSKFDQHPMPSFCHLSGVPSSRT TLATGRAAPHSSPLKSLVQGYAPWQTS MSCDYQPPRRQEHKETSRRNSEKQLQAP AQRPTPKANTSGRSLQEDLLPEAQPL SVPVCHPCPLLHAARLAVSAAAIIRGLE VAEAAALVCAQKLLAACSSHSLITVWSRG KVKETGLPSTVQAVSELLQVLLCKQKAG GCTPDQGPHTSKVLTASSLPRISSMCLL QPGPFSNIPGLIATLTPAATAATPGPLL PCTKHGNPLGHGLTCHYPLAPLPLPAP HVRFAALSCIERAGCCCLCTPSRITTVG GSVGSASELNHRACFSLPLMLGFPAPI ATHQWLFVSVRNDKNTLDTPRSAGCDGA IIRPROEPAPDGPVILLCLEPMPAGSYPG GAPVSGHRQVHPQWQVQHLQSGSGIR TGLGANCGKSHDSAYKKGGDVCFPGEM VPVVIHQIKGVQHPNCKRGHWGLTVQ KQPWTGSRGPTADQLHPKNSSLTLVFP R*
4684	12735	A	5577	171	1631	GLPQAGADSDPRTFPFLLGGLPLPSPR PYP*PAARCWASDFPERGKRLRAHSS FPVPA/PPMRPRTVPRAAPHPHPSPTS PSTGIRHLRAEGW*TGQ*RTNPFNSRRR LSPLVTPGSCRSRPTQSPGSGITVEMPA RRWCAGATGPGATSPSSLKVKETGLPST VQAVSELLQVLLCKQKAGGCTPDQGP TSKVLTEAS/SSAPHLQNVLAARSISDN IPLGTATLTPAATAATPEASPLHQAWQ PS/TAMASPAITPWPHPYPCQLRMSGLLP CPA*NAPQAAVSVPPPAE*RLLAALWVH VLRN*TTGPASHCH*CSAKPPSPPTNGY SYSAMTRTPWILPDLAVMVLTPGKSKQ PQM/RPVLVLCLEPMPAGSYGGAPVS/ AA*AGTPPAVAGAAASRAVGGHPHRC KLRQIP*FCIQEGWGRVFSRNGPCRASD SQRGPAPKQVQSGLDGTGATEAALDWE SGPHCRPAPP
4685	12736	A	5578	718	2209	IPSACFLVLLPSWW/LVVAHGLSGRVA LDQAFQWTRVRGCSACGKGCAPAG/PQ AQRGSGRWAWDAGP*RSVWGPLG*TQ PAAAL*P*VSPFVAGKGLAPTLVGTAI QSILQGLILSWNPGGEPAG*RNLDGAGG RACCDEDDQIRGGAVLAEVT*QCSCSP MPDAAHHRHRVRVGVSGAAVCPQWEL GGHGGNARPDAGRVLSRCGRTRNLLT AEGFMPHASVCIQSKSG/TSQTICPGV HCTWQSCPLPSAPLLGPPLSRTVDTGEE GHPVDASWTPSTPREPGRWAHCLPQRK P/PLGPREARASVPPAHSGTVAGEAPVIS HFR/SFAPAFGICRGPRAGATEALPAPRA DAPVKA/V/PAHTGAAS/EPARHVRPFP ATAPFTFSAVHKSGSGSTSLQTLVIFCC VLMVAIMPGRVWHLTVLWTLNLAIVSR VPISVCALDLSFISVPCPLRCW/WNRV SPKLASPGCSECLCGQMRVMVSSHFSV E

4686	12737	A	5579	2	354	L PSSWDYRRPLIFVFLVETGFNMLARM VSIS*PLDPDLASRDEIIGVSHRAWLL S**KGERKSTNVSHKEGLG*WSRATVLQ VYSVGFWEVFPQGCQSQSYFHNNTNM LFAF
4687	12738	A	558	442	626	VEEGGSEAGWALRIKICINGVSPKL/VQL LHFPQIFNGSFVKLNKASVNTLRIVERPYT WST
4688	12739	A	5580	1	1263	MAEEQGRERDSVPKPSVLFLHPDLGVGG AERLVLDAAALQARGCSVKIWTAHYD PGHCFAESRELPRVCAGDWLPRGLGWG GRGAAVCAYVRMFLALYVFLADEEF DVVVCDQVSACIPVFRLARRRKKILFYC HFADLLTKRDSFLKRLYRAPIDWIEEY TGMADCLVNSQFTAAPFKETKSLSHID PDVLYPSLNVTSFDSQSCS*KAGMT*SPRG KNSWLLSINRYEREKJWLTGTGKALV QLRGRLLTSQDWERVHLIVAGGYDERVL ENVEHYQELKKMVQSQDLDQYVTFLR PSDKQKISLLHSCCTCVLYTPSNEHFGIVP LEAMYMQCFVIAGNSGGPLESDHSVTG FLCEPDPVHFSEAIEKFIREPSLKA TMGL AGRARVKEKFSPEAFTEQLYRYVTKLLV
4689	12740	A	5581	200	705	LSQTLTVLYPSLNVTSFDSVPEKLLDDL VPKGGKFLLSINRYERKKNLTALALEAL VQLRGRLLTSQDWERVHLIVAGGYDERV LENVEHYQELKKMVQSQDLDQYVTFLR SPDKQKISLLRQLARVCFYTPRQ*GTL GIVPLGRPCYMAVPOFICILIRVGPFGSSI
4690	12741	A	5582	1	259	ERGSRISARLEC/S/GAIAHCNPRPGSSD SSPSACRVAGITGRHHPQLFFVFLVEM GFHHVA*DGLKLL/NFMIHLFPQPKVLGL QV
4691	12742	A	5583	94	395	PIIITYPEFLNGYIISQKIKFSHHQLQKIDFL P*TWHLFLIEQR*NILMEGNQPSVTD DVK ILFSGKL YSHSKJQSMLL*LVTRE*CYMF NCNICLSFSSLSVIINDLQNP
4692	12743	A	5584	3	270	FFEAGSHSGCPGWSESGAIAHCSLDLFG SSNPTSAS*IAGTRSMHHHAHLIFVFLVE TGSPYVVQPSLKL RVQAILPRPPKVLG LQA
4693	12744	A	5585	13	775	YSVRGLVPAERRTYPGSIAPADGMVY ALEGMGPDAPQAQVRVYPRRD CWLS LPSMPTPCYGAFTLHGKIJYVLGGRQG KLVPVTAFAFDLEARTWTRHPSLPSRRA FAGCAMAEGSVFSLGGQLQGPAGQLYS RPHFVNTVEMFDLEHGSWTIAPOPAHE G*EGQTLWLGPLGATLWPLGALETSHVL WALLEFSFLARRRWEALPAMPTARCS SLQAGPRFLVIGGVAQGPSQAVEALCLR DGV
4694	12745	A	5586	1	936	
4695	12746	A	5587	1	1023	
4696	12747	A	5588	3	345	LNLLMYFRDNVSFCHPGWSTVM*S*LA AASNSWVT*SSCFSLPSSWD*S*LPPCP ANFFFCQ*QONLIMSSRLVNSL/QPQV MLL PQPLKALGLYRVSHHASVKVFNVL NM
4697	12748	A	5589	1	430	GDGVLLCRPG*STVALSQFTAISASWVK RSSCLNLPSSWDYRCAPPCKAKCIFSRD GGFTMLARLVNS*PQMIHPPWPKVVP LPACVWYFSMACNFLYTPSFFLRKCCQ PKMEKAALCQGSPTKVKSCQSMFTNF F
4698	12749	A	559	3	398	

4699	12750	A	5590	3	389	GVSPCWPGWS*TPDLK*STRLGFPRCWD YRLLEVDPCTHGSHLYL*KDPPVLPPLAEG CDYQKGKEYALSSCCDKSYLPDYRTKFL CCHPERGTWKLGTVGCGYAPIQSFQIAD EQAWLQHGSGAVYLC
4700	12751	A	5591	3	53	
4701	12752	A	5592	363	777	DMRPQLCSVDNHREQRAEFINIQHQFF FLRQSLTSVAQAGVQWCSLSLQPLPTG FKPFSCLSLLSSWDYRHMPPLANFFCIF SRDRGFTMLARLVLS*PQ/CDPPALASQ NAGITGMSHAWPTPTFSYLLNTQD
4702	12753	A	5593	3	85	FFFFLMLHNNVYLVLHLFTSYKHFHIV LYKQKQFTYVY/TFICLLVFQQUILLES FPFLKJILL*SL
4703	12754	A	5594	1	281	PPFAPETESYVA/RLECSGTLVHCTLCL PGSSDSPASASQVAGTTGACHHTWLILVI LVEIGFHHVQAGLGI/S*LQVIRPPWAP KVLGIIG
4704	12755	A	5595	2	369	FFLRWCFALVAQAGVQWQDLGSLQPLP PGFKRFSCLSPSS*DYRCPPTRLANF/SV FLVEMGFHHVSQAGLELLTSGDLTLLAS QSAGTTGVSSRAWPDLYLFSYLIEKTSFP KFSIPFHLEI
4705	12756	A	5596	432	1490	KKGCGKPGELCGCMPSWKNAYCPTAQ QTAEYLLSSPCGSAAPCLP/DRASSSRS VEASSLDSAPGTSAAAGSPRPFPGGEYH HPGPGANNPTPAESIVVPSW*GCHSS VA/VEKLSLAPGTPT/SDLPLDSSMNRKA PIPVFGLSASLLPLKDARASETSSR*TH Q*FFGKDVH*TONSLAQSLQHSSGPOLL WGKTGNSQSSFPQAG*HSRHKEGCWRE PSHKPLEPHSLSQHHGTASSARIPEVPPP HSLGHSPACAWRSSSPRPRPLAALPGC RRRRGAGSSHKAPDRSTARPGRCGRRR GRRGARRGCGGSGRGPSSHGPQRSESAP PAGAHTRLQPLRSHSLH
4706	12757	A	5597	I	2163	MARMSFVIAACQLVLGLLMTSLTESSIQ NSECPQLCVCEIRPWFPTQSTYREATVTD CNDRLRLTRIPSNLSSDTQVLLQSNNAIK TVDELQQLFNLTEDFSQNNFTNIKEVGL ANLTQTLTLHLEENQJITEMTDYCLQDLS NLQELYNHNQISTISAHAFAGLKNLLRL HLNSNKLKVIDSRWFDSTPNLEILMIGEN PVGILDMNFKPLANRLSLVLAGMYLTDI PGNALVGLDSLESIFYDNKLVKVPOLA LQKVPNLKFLDLNKNPIHKIQEGDFKNM LRLKELGINNMGELVSVDYALDNLPEL TKLEATNPKLSYIHLRAFRSVPALESLM LNNALNAIYQKTVESLPNLREISHSNP LRCDCVIHWINSNKNIRFMEPLSMFCA MPPEYKGHQVKEVLIQDSSEQCLPMISH DSFPNRLNVDIGTIVFLCDRAMAEPEPEI YWVTPIGNKITVETLSDKYKLSSEGTLEI SNIQIEDSGRYTCVAQNVQGDTRVATI KVNGTLLDGTQVLKITYVKQTESHSILVS WKVNSNVMTSNLKWSSATMKIDNPHIT YTARVPVDVHEYNLTHLOPSTDYEVCLT VSNIHQOTQKSCVNVNTTKNAFAVDISD QETSTALAAVMGSMFAVISPASIAVSFP KRFRKKNYHFIKKVLWQKTSIPLNE LYPPLI*PLGKVDSEKDKGSDATKPTQ VDTSRSSYYMW

4707	12758	A	5598	50	824	SLKPYVYVRIFTKEKSYKCECGKPHKS CSRH*NHKIHTGEHYKCECGKVFNH C*OLIAQKHIAEKNSDFCECGKAFNNY YELTHQRFAR*KQCKCNDTHIYILWK DVTK*KP*STQGVMIHVIHICTWKDFKNI SLRVHKSFYTEKHVKYKDCNTFTYVYV DFVVHRRYITER*PSNSCSNFP*HYIGK KPYNCNEYKCNLKTSP*KLVA*GRARW LTLIIPAPWEAKAGSGRGQEIETTMKPC LY
4708	12759	A	5599	1	2043	
4709	12760	A	56	939	1603	GHSANWWLGPENPALTPPELVSPPRGC RQSSRPSLRHKEKAK*KSPQPTILRPP APPTGSLQAPKGGARPPSRPPPPRPA PNRPLPPPPSPE/GRSSCPAPPTTRTPR IQSQTHRPPSSAYEKKDAARAPTATGR APRRPLRPKSWMPQEKEPTDRSIDR TPVSPYQTREGGRAVPRASSI*GPDSPAT RODGSSGFHRSYRPGCVAR
4710	12761	A	560	1	960	IMATSATSPHAPGPPAEGRCGYVYEKKK RRCRMVVAAGKRCFGEHAGAMEEEDA RKRLCPLDPKHTVYEDQLAKHLKKCNS REKPKPDFYQDINAGLGETEPEQL/CL NSTLTDHIMSHPALHDALSDPINGDSAT KHLKQASINLGNENLKLGP RR CFVEF GAGKGLSHWVDIALKDAEKVFHILVE KVTRFKVDGKHRKNSVFERLQIDIQH LCLNKIPVLRREKLPPVIGIKHLGCMAT DLALRCLVETYAASFERNNEELAKRIK NDKTEKEIYTLAKEGNEKNVPEKWNPV AGIVIALCHHRCDW
4711	12762	A	5600	18	403	FCIFSGDGVSPCWPGWSRIPDLR*SACLS LPSSWDYRPPPPRANFP*FLVKTFHH VQGAGLELLTSGDPPASASLSAGITGVSH CTRPMYAFKLQNLFHIDKSDYRLRYKL YLKATTMVFRYAFL
4712	12763	A	5601	2	497	ETESHVSQTQAGVQWCDLGSLOPPPRLK RFSCSLSPSGWDYRHPHPLANVCIF**I WCFITMFARLVFNSRRTPSLDITAS*SAG ITGVSHRA/LCIFYFYFVAEMVRMSCF VTQVGLFVALSD/LPPWPPKVLGLQA* ANSAWPVFVYCNSEFFSHLNAFPN
4713	12764	A	5602	3	303	LSCFPQATFFFFIF*DRVLLUCPGRSTVVQ SQLTAALTSRAQGSSCLSLPTKWDYRHHV PPYSAFFLVLDKSLALLPRLVLSNAWQ AILPPQPPKVLRLLA
4714	12765	A	5603	122	525	QFFFEIGLSVAQVGAQWR/STSPLOPW SPGFK*FSLHSLPESWEHRPMPQGLDNFC NFVETGRHVAQASIKLLGSSDLPLASQ SAGMTSMHIAWPIVKNFVCIYYVPDIV LSMLSVKSINIHINHVRLQ
4715	12766	A	5604	1	198	LTGRL/SKCEVVSWRFDVQLKDLKRWO NHILLSQLACIVLTSAGIMDIKEMR*K HTGKSLGFFF
4716	12767	A	5605	156	1047	VPAGEARVQWHDLSLQPPPGSSDSP ASSSRVAGITGKNTICKKCAQNVQLYG TPKPCQVCNIAAFIGNKCCORTNSEKGY GPPYSCEQCKQCAFDRKDDRKVDGK LLCWLCILSYKRVLQKTEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKLTLS SIONEIPKKSKFEITNGDSFSDLALD SPGTDHFVIAQLKEEVATLKMLIHQKD QMILEKKEKTELKADFYQESQMRKA MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSF

4717	12768	A	5606	156	960	VPAGEARVQWHDLSLQPPPPAGSSDSP ASSSRVAGITGKTNITCKKCAQNVQLY TPKPCQYCNIIAFIGNKCQRCTNSEKKY GPPYSCQCKQCAFDRKDRKKVDGK LLCWLCTLSYKRVLQKTEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFPDLAL DSPGTDHFVIAQLKEEVAITLKKMLHQK DQMLEKEKKITELKADFYQESQMRAK MNQMEKTHKEVTEQLQAKNRELLQA AALSCKSKSEKSGAITS
4718	12769	A	5607	1	354	ETEFPCCOAGVQ*HDLGSRQPPLPGSS DSPASASRVAGITGMHH*SRDVIJRIELE EEGLELCPHFSVRNLKPTGQILTLMLSLA PVKLAPQPKLSWMELTRHSRLWAALSG GGQV
4719	12770	A	5608	3	403	YIFSRDRVLPFCPPGWSQTPGLKQASARCL PKCWDYRREPPQLAED/SYQFPRASLKM TL*GIVSMV/PLLQKLLWMCKAQGNQAE EGTGVALPEREASSWSCLLQLPPFVDEP CSSFKRRESEKSPNGFPNLI
4720	12771	A	5609	340	1015	VGSVEEFQGOERSVILISTVRSQSFVQL DLDFNLGFLKNPKRFNVAVTRAKALLII VGNPLLLGHDPDWKV*APPHSPS*WP QPLPRAGGSFLSACLSS*SSDVISFTASL LYL*VK*HPEVEQVQLRWDRVTA*PPVS AGHSSVPHRFLFECKENGYYTGCPFFAK LDLQGGQNLQGLWSKLSPTS GPHSH GLTSFREREGERGVPFCWEPWEWRNEL
4721	12772	A	561	111	349	SLDSDSGCKAYVGEYLPGLDLHAQP SLLKEHEEEKMFTIKGNRLPAADVKNIIIF FVRPRLELMDIAENVLSEDRRG
4722	12773	B	5610	769	809	GFPIIHGVMGKDEREGNSPFFNPEEAA TVTSYLKLLAFSSKKGKARLIPRSVGVI SPYRKQGAEDLEIDKDFEGGFSKKNKSK AQERSVILISTVAKRPRALLQLDLDF*
4723	12774	A	5611	99	341	SELGTVAHTCNLILPSSGDYRPSPHLAN FV*FLVEMGFHHVGQSGVELSSGDSLAL ASQSPGITGVSHRAQVPPPPFFF
4724	12775	A	5612	1	1795	MRQSHQLPLVGLLLFSFISQLCEICEVSE ENYIRLKPLLNTMIQSNYNRGTSAVNVV LSLKLVGIIQTLTMQKMIQKYNVKSRL SDVSSGELAILALGVCRNAENLIYDY HLIDKLENKQAEIENMEAHNGTPLTNY YQLSLDVLALCLFNNGYSTAEVNVHFTP ENKNYYFGSQFSVDITGAMAVLALTCVK KSLINGQIKADEGSLKNISIYTKSLVEKIL SEKKENGLIGNTFSTGEAMQPSGVPLN GCSTTTLAVACSTGHRKCSRALENRCR SPAACKVTNKRLSNCQTGQRKLRRCDN RMQCGVLDRILEQKEDISGTTSEIQIKWG VELHSYSRWRLGKVAEMMVQCQKAGY PERGDVGAVAEGPNIKVAGGLRELETR KTALPENESSQEHAFITITLQHLVQGLAH SGYSVLSCLLNENRAMQKHGIVWTQQ IQSSAAEKSEKTSWDRLLGRGTAHSWQ ACPVSLKQAVEGAHQEEQCKRRDEMR PGESDLVTMASGRDALLCGRCCQQAQT EELTITVPRLGEQREAPLPCSTPGSTPPA AKVPRPSAAPDGPSS*SPGARQVVARPR GQAPENK
4725	12776	A	5613	12	367	LGGASEATGASAAQPPPPAPRAPNPAP GPAPAQ*SAIDPPLPGRAPRSFLKGP ATARPFG/WRLQSPL*PESPPDTRGVRG EAPAPADPAAGPRKSKSDCLAAVIRCLC RAPR
4726	12777	C	5614	231	302	MNSFLVEFFLYVQYMLRLNFC*

4727	12778	A	5615	194	737	EGGVCLSWCGWFGPVCDDYTPPLPEPR DGCLC/PLPKMPAPPMLPQSQFQFQ RPGSPVPVETASPPAGN*ISHLSEGPNTQ WSPGFKPWGVCHEL*/CGHVGVPLPKAP CPLE/CCPSGCVDSGAFQKHSPPSGSGPE TAAGPSHLNDNWQRLGFYELLSGIFCRA PNKCIYCVYSIFLK
4728	12779	A	5616	2	360	PRVRDFRVRPRVRRIYKPLRTRELDQ FLDKMDDPDY/WPAVDFFSGDVMIHPVT NRPADKRSFIPSLVEKEKVSVMGHAUKM GWIQPRPRRDPTPSFYDLWAQEDPNAVL GRHKMHVPA
4729	12780	A	5617	1	2072	DSGSDSSEDDDEGDEEGEDGALDDEGHS GIKKTTEEQVQASTPCPRTEMASARIGDE YAEEDSDEEDIRNTVGNVPLEWYDDFPH VGYDLDGRRIYKPLRTRELDQFLDKM DDPDYWRVTQDPMTGRDLRLTDEQVAL VRRQSGQFGDVGFNPYEPVDFPSGDV MIHPVTNRPADKRSFIPSLVEKEKVSVM VHAUKMGWQPRPRRDPTPSFYDLWAQ DPNAVLGRHKMHVPAKPLALPGHAESY NPPPEYLLSEERLAWEQEPSEKRLSF LPRKPSLRAVPAVYGRFIQERFERCLDL LCPQRQKMRVNDVEDLIPKLPFRPRDLQ PPFTCQALVYRGHSDLVRLCSVSPGGQW LVSGSDDGSLRLWEVATARCVRTPVVG GVVKSVAWNPSAVCLVAAAVEDSVLL LNPALGDRLVAGSTDQLLSAFVPEEPPL QPARWLEASEEERQVGLRLRICHGKPV QVTWGHGRQDYWPLVAPRGHTGVLIH QLSRRRSQSPFFCTHV*VHRVAFSPARPF LVLGVPQRSVRLYHLRLQELTKKLMPI NCKWVCQPGGCNPAAGDNVICGSYDSK LVWFDLDTKPYRMLRNH/HRRALLA VAFHPRYPLFASGSDDGVRVICHGMVY NDLLQNPPLVPVKVLKGHVLTRELDGVL DVIFHTQPVWVSSGADGTVRLFT
4730	12781	A	5618	1	214	QDSALLQLL*HYPPVYNLSPAGQGRDLF SCLLRHRLKLPTSEGVRTQSAQAFKGP NAQTQWYIGHDPN
4731	12782	B	5619	58	280	IHCAISKIDIEKDIQAVMEETAILSTENKS EFLTDTYFEEDPNSAMDKERRKSLKPK LLRLQRDIEKASKDKEX*
4732	12783	A	562	223	747	CIGKVVYVWLGVGWLOKSWGTPLEFSH PPGRPRSFAGHSPQPGILGVGLGGENRI LVIFNLITYCTYLGGQGLGEVGESEPLS APPTPFLRRFVCVGPPLPFPCHCLDVVL FFYRSPFPSSPFPPIPLPLFPVCSFLG FCTTQLVYTVYTQPAKRRKPNKGHKKK KK
4733	12784	A	5620	2	785	HFNMRDPLTDCPYNKVYKNLEKFSQNG ENFCKQVTSVLQQRANLEISYAGLQKL ASKLSKALQNTKSCVSSAWAWASEGM KSTADLHQKLGKAIJEAIKPTYQVLNV QEKRRKSLDNEVEKTAANLVISNWNQIK AKKKL MVSTQET*STFPSL*ESS/ARQSM TEKEKRLKLNKLTSTKLEKEDENYYQ KNMAGYSTRLK WENTLENCYQSL/ESW RRKEFNFYAILNQYSQHISLFGQTLTTC HTADSCHQQD
4734	12785	B	5621	13	543	MFLAPIASVSRREFXVKASVYAYTMFS TFYHACDQGEAVLCILSYDTLOYCDFL GSGAAIWVTLICMARLKTVLKYAYRCG HRRQCYPTLWQWAFVYLLPGVFMASVG IAIYTSMMTSDNY*YTHSIWHILLAGSA ALLLPDQPAEPWACSQKFPCHYQICK NDREELYAVT*

4735	12786	A	5622	1	1798	MLCFYAGSCRHFRSGAPPVNPLGTSTFFD DTAVQPSFQVGVPLSTIPRSNASVNVSH PAPGDWFAAHLPPSSQKIELKGLAPTC AYVFQPELLVTRVVEISMEFDPVLPQTL LSHPSYLKVPVDPDYTRELLLELDCVSN GSLGCPVRLTVGPVTLPSNFQKVLTCG APWPCRLLPLSPPWDRWLQVTAESLVGP LGTVAFSAVAALTAACRPRSVTYQPLLQS SQNQSFNASSGLLSPSPDHQDLGRSGRV DRSPCLTNYPVTREDMDVVSVHFQPLD RVSVRVCSDTPSMRLRLKPGMDSGGS LTLISLRANKTEMRNETVVVACVNACLAL PLALILSLNCTTAFFGGYTLSLSAVGSRA NLJIPYFETDNWVLSLQJMCPEVAEDCE QAVGPRWEHDLCTWGALFTDCGPYQO QSLLRHSHYLYASCSCAKAGRWGWSCTD NSTAQTVAQORAATLLTLNLMLF/LGP PSPSSVRRFFLVEASVYAYTMFFSTGCG VGGQDRAHGASPOFYHACDQPGAEVLC ILSYDTLQYCDFLGSAAIWVILCMAR LKTVLKYVLFLGLTIVIAMSLQLEPGH VEHLGGFASLPS
4736	12787	A	5623	121	291	AFCEPKYELTINFKNFOLGVVTHACNPSI LGGRRGRIT*AQEANLANMAKPCLLNK
4737	12788	A	5624	571	690	CQQGFSFLQAYGPAQHAIWMRKFKAKY PDYEVTWANDGY
4738	12789	A	5625	130	943	
4739	12790	A	5626	45	473	GIPGRNMAVADLALPDVDSDHGVFK YVLIPSLGLPAPGIRPAESKEIVRGYKW AIGHADIYDKSVGATCRKQGLRTVSV WTAGPHLPTKSPGQERFT*Y*FHGPMV LPKNANFNLRKSKAKYPLRTEVTLGLNR PAT
4740	12791	A	5627	3	348	TLRLTHLHTDTHQ/BSHSHYTHTEHTHT PHITETQTH*YTYALQ/PLRSHLFLRQSRP QNGNAPLCEFSPHSPDVLQTLHLSTV VKIPSTSLMCRSSGGAQCRSDQHIE VGP
4741	12792	A	5628	3	331	FFEMESPSV/SQAGV*GPNLGSLOPPFPQ FKQFFCLSLPSSWDYRRTPPCANFWIF* KDGVSPSW**WSQSLDLGLFKFYFFKET LILCTQSTSTTTITTKRTRSSIR
4742	12793	A	5629	3	336	SHSVAQAGVOWHNLGSLQPPPPAFK*FS CLSLPSN*YRRP/PPHPADP*FLVETGFS HVGRAGLKLTSSEPPACASQAGITSVS PPCRAHTFELIPLCPFLFWPLFCP
4743	12794	C	563	238	267	MOINSQMER*
4744	12795	A	5630	1	267	EMESCSVTRECSGAILAHNCLCLGSS DSPASAS*VAGITGMCHYTRPFLFLVE MGFCHVGQAGLELLTQVIRPPPKVLG LOA
4745	12796	A	5631	3	521	FSFFFFPAFKMSNRGRGSLGRKCFDF PLGPSRLL*SNWCLINTRSPKTLVHLP *RGNQDRLDQTSPLLVGQDMVMAHS/ VKKGKPELRKKVHPSSGSRQPKVHY* EKMVGVLFTFEG*LQGVIVPEFKGRDGK VSHLPGTQLGKGSFADFVAGCIPMP WQPLH
4746	12797	A	5632	3	216	DRSHSVTQAGV/QWCDLSSLPPPPGLK *FLCLSLFSLSWDYGAPPHQTNFYIRDG VSPYCPGW**TPSLG
4747	12798	A	5633	1	412	IRSKNI*YLEINPTKHTKTSKTLTKEMK EDLN*WOENPCSWIGSVSIVKMSVLSKL IHTEIQCNRNKYPOIGLILLPLILFFLLDR LVLKFTWKGTGPRMAKAILRS/SEDLT LTYINTYKATVIKLVGAKPD

4748	12799	A	5634	276	2588	NKHFSFOTPKKSHQKSLSFSKTTPRRISH TPOTPLYTPERLOKSPAAMTPTKQAAFK ESLKSSSPGHSDPLDSKITPQKRHTQAG EGTSLETKTPKTPKROGTQPPGFLPNCT WPHSVNSPSPSCAPAPPTSQAQRREC LIPIRDPLRTPPRAAAFMGITPONQTHQQ PHVLAARAEPAQKLKDKAIKTPKRFG NSTVTSSPPVTPKKLFTSPLCDVSKKSPF RKSKIECPSPGELDQKEPQMSPVAAALS CPVPSTPPELSQRATLDTVPPPPKSVGK RCRKTSDP/MKEAS/SECQLDASATPGVG TADSPAAPTDSDRDQKGLSLSPQSPFERR GYPGPGLRSDWHASSPLITSDTHEVTL SEAEHHGGDLKSNVLSVEEGELRTAD AEKSSLSHPGPPSPSCGPGSPLMPSRDV HCTTDGRQCQASAOQLDNLPAWHSID SASPOTYEVELEMQASGLPKLRUKIDPS SSLEAEPLSKFESSLGESEFIPALSMFRA RSLSKPEPTYVSPPCPRLSHSTPGKTTGGK PTSARVPVPT/SPSSTPSFQDGVWPWT SPKHSGKTTDPDIK/GPGGRWAVAPA PLPGGARSPVQSPWEPVTA*VRGQGRP* TQHPODAHLGGF*ARGSVAPRPVASQE /PACLPRKPLFGDSL*VPGRESCWPRK KLTVPEKGSVT*EKIOKLVRVKRGLQV VHGSYPPRETCKRCLFPAPPLPAPVPCGAP SPASALQALTQSPLLFGOKTSPSSQSKDPR ILNHHFLESCSVAAQAVQWHLNLSIQQP PPGFK*FSYLSFLSS*DYKHAP/PRPANFI FSRDAVSPMLASWSQTPDLK
4749	12800	A	5635	29	268	ILNHHFLESCSVAAQAVQWHLNLSIQQP PPGFK*FSYLSFLSS*DYKHAP/PRPANFI FSRDAVSPMLASWSQTPDLK
4750	12801	A	5636	2	118	
4751	12802	A	5637	1	262	ETDLALSARLECSGATILAHKRILRPGSR HSPASQVGGTGTARTTP*FFVFLVET GFHRVSQDGLDLL/NLVHPPWPPKVLGL QA
4752	12803	A	5638	3	309	IDTITTTTTTTTTFETESLVTRELECSGAIL AHYKRLRPGSRHSPASASRVA GTTGARH HARLIF/VYFLVEMGFHHVSQDGLDLTTS *SGPPRPKSLGLQA
4753	12804	B	5639	49	754	MAGAAPRLPWSRPHGSGGWWMQPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLVWAASAWEYLPSCSK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRAWPGVVT GALLQVNLGAPVHAHQRPDKQNLFA IIQVGWQTQISGPAKRFGSAWHSRAFLT HCCTVTTRPCTTSRPOIIRLPAELMSAV RTSIVEKRFPDSCGTSWAFX
4754	12805	A	564	549	848	LFFPHSQSTKVSTYEQIMCVYVFLFCF FVFETGSHSVTRLGCSGVIMAHCS/NL PGSPDSTSAQSPVAGTTGVCHHAQLIKF FVEPGOHTIPLSL
4755	12806	A	5640	3	906	TVKMAGAATQASLESAPRMLVAECSR SRARAGELWLPKGTVATPVMPVGTQA TMKGITFEFLDALGCRICLGNTYHILGLR PGPBLIQANGLHGFMMNWPHNLLTDSG GFQMVSLVSLSEVTEEGVRFRRSPYDQNF TLLSPEKSVQIQNALGSDIIMQLDDVSS TVTGPREEAMYSRIRWLDRCIAAHQRP DKQNLFAHQGLDADLRATCLEEMTKR DVPFGAIGGLSGGESKSGFWRMVALSTS RLPKDKPRYLMGVGYVVDREARALPVG SGFLGTPYPAWGGGIWGRKTQV

4756	12807	A	5641	379	677	EGLRP/ELQNLFAIIQGGDLADLRATWP* RDDQARNVPFGAIRGALSGB*QSRREFC AGWLAEEHTLG*PKDKPRYLMGVGYAT DLVVCVALGCDMDFCVFPTRTARFGSA LV*TGELQLRRKKVEKDFGPPIRPGCTIP HVPKAPARAFHATAAQ*QHGPRTTLT VHNMAIYQLQMSAVRTSIVEKRFDPFVR DFMGPMYGDPTLCPTWATDALASVGIT LG
4757	12808	A	5642	2	335	AGVQWPDLSLQPLPPGKRFHHLGPSS WDY/RVHEAFRPA/NELKFLVEMAFCHV QQAGLELLGSSDTPVLA/QSGTGESHLA WVPVNF*NGSFNVFLSRVINEHLALHL
4758	12809	A	5643	56	571	YYQNPPKKLAASCSGLSPVLQVLKSLKG EVLPLGETQHYFPLNRELRLTQHFLLL MPLSQ/QTSKAGTHIARLDIPDYQRTKF KIRNGKKILNGRRKEIAWNVGFSIT/PCLL WKVIGILEQSNMAIYWIHPRMKV*ASP PGKEQRPFEVTPGQRNMMEWLEERENG RCLP
4759	12810	A	5644	2	1085	
4760	12811	A	5645	387	533	RWSDYVVERVMNSDTSPELREHLA/QKP VFLPQGE*AMISICQQVHTVHD
4761	12812	A	5646	1	169	VFLVETGFRLLARLALNS*PCDPPASAS QSVGITHGESHCARPGTILMKHROQLCT
4762	12813	A	5647	2	369	FLRWSFTLVAQAGIQWCVSSQLPLPG FKQFFCLSLPSSWDYRCPPTNF*LLV EMGFHHVGQAGLELLTSGDLPASASQSA GITGSHRARPGILFF*AVNGGGNQVFLF LRVLNGL
4763	12814	A	5648	1	340	FRPQSC*CPPADSRLEPATPEAVLSLLVK ASPPPELPRSPPEKPTGLSGGALG*QRFSR AARNRGDPLTRKNSKITLSLSFLQELTKA LEQKPDDAHILSSKSLSSHSSWELL
4764	12815	A	5649	2	660	RPPPAFAPGPGQWPQGPYP*AESPPARS RTHASQLPRCGPRPTADPPASPRRLRP TSRSRHCFAAGS/PGTPPQPPSADVRRV PPFSPLSRW*W*PFPQSC*RPADSRRSR PPLRPSRFL*KPAPQSSSVASREAGPL VERQVDSVLAPRETASSFATRPCATLP GKVTANCKPPQKTSQQLLVRLGSRVA AYSSPFFGAPEIGEGEMPI
4765	12816	A	565	178	375	ANFIAGVWWSQRFHALALHIIQGSKKV P*ANFIAGVWWSQRFHALALHIIQGSKK VPIVSKLENTAARHELFAIEWRKCQSE KKAQAKGWROW
4766	12817	C	5650	19	153	MKMTSNFLFSSGIFSSTFQIHLDVPLEL QTQNTVMGCLMRHHP*
4767	12818	A	5651	2	306	ETKSCSVA*AGVQRNRHGS*MQPPGSS NPPISASRVFGTIGICRTHILJLFFVETG SHYVAQSS*TFEAQVIRLHQPKLVFF YIFQLFCFLVCY
4768	12819	A	5652	2	760	FFFFWSENDGHLDTGARFAPDRRHTGV GRTKDTQVGYRCHTAPARARGGWGED GCLAS*PQVVRKSRWSVPGPARGGQC HNPSGFT*PGGRHRKQPPGARVLQAG GQQAFLPLAGWHLSPGYWLSTPWAC KGLGVVLSVTLPPRSPWVG*GLGSR/Q AVEGRAAQGRYLSFCPGTQW*WPSAPI PTGT*SEVAHTKGVPGGEPPEAARGLRT LTLAVGPGLPGRSLVQHPKRYALQALT SCFCSA
4769	12820	A	5653	1	834	

4770	12821	A	5654	674	1268	PRDLPASASQSGAGITGVSHRLRFYTDHQ DVAPECGAYFFHELAKERKRGVE**NTL LAKMVSIS**PRDLPASASQSGAGITGVSHR LRFYFDHQDVAPECGAYFFHELAKERK KGVRLLLKMQNRQGGPAVFQDILKPGQ DEWGTKLEAMEAAMAPGKNLNQSLLD LHALGSAPTDPHLCDFLESHFDEEVT MPRKSADLHAAAGEASLGGVSLNVMK GASLHALCLRLNSFGPVATLCGERVV HKNNRASALRKCIWF
4771	12822	A	5655	2	612	RYDHTFFFFFVFTEBSRG*LSQAGVQ LRDLGSLQAPPPRFTFPCPASPSSWDYR RPPRPANFLYFYFSMRRGFTVLARMVS IS*PRHLPALASQKACUTGLSHCTRLEFF* WMESPVSQTQAGIQWHDLSLQPMFPQF R*FSWLSLPSWDYRRPPRPAFCTPSR DGVSPC*PGWSRSPDLVHPWPVKVLG LQA
4772	12823	A	5656	140	261	RAEPPHLANHILFF*DRVSLCRPGWTAM A*TWLTVASTSRAQA VLPSPASPNS*DY RHVSPHPLIFVFSFLIMLSRMVSNWAQ GILLPWSPKVLELQA
4773	12824	A	5657	79	358	AGVKWGDLSLQ/PPPPRFRKFSCLSLPS SWGRRHAPP*/PG*FSVFLVKTGFLHVQ AGLELLTSGDLFPVSASQSGAGITGMSHCA WPTKALISK
4774	12825	A	5658	2	350	SQVDR*QSEPPSIRICREDHMERLQAFDA NSRKQEAWEKEKAIELEEWYARQDEQ LQKTKANNRVADEAFYKQPFADVIGYV EEAFVNIDESSPGTEWERVARLCDFNP KSLD
4775	12826	A	5659	3	752	HRCGVGGSVGFCLTVGVRAVQLPAMAE LDPFGAPAGAPGGPALGNVAGAGEED PAAAFQAQSESELAGIENDEAFAILDGGGA PGPQPHGEPFGGPDADVGVNNGEYYQE SNGPTDSYAAISQVDRQLQSEPSIRKWR EQMERLEALDANSRKQEAWEKEKAINE LEEWYARQDEQLQNTKANNRVADEAF YKQPFADVIGYVYAKLIPFSTDSFYFC LELMLLLCHKLLCLFNYPKLLALWGLPKN
4776	12827	A	566	656	874	
4777	12828	A	5660	1	348	NSLGESANALGNQ/QPITQNVCPRLAMQ APGMAPS*PFIMNTLEVRKAFLKRF*WM SAPUQVGLVGFCLEVFATP/LCCALFPQKS SMSVTSLEAELQA*DPKRAHPELRRVY FNKGL
4778	12829	A	5661	3	430	LRQSLDSVAQAGVHWRLDLSR*APPPG FTPSSCLSLPSSWDYWHPPRPVFLYF* ERRGFTVLARMVSIS*RRDPASAPQSG IIGM/SHRARQILFFHIFSTVSAGINES*V CFYCIILEVPSKEGILES*CISEAAH
4779	12830	A	5662	3	756	GAISAHNRRLFGSSDPSASAQEHWGT ETLAH*RSQLTATSASWVQVILLPOPKN TGAQKHWPTEGEAHECHVSDDESITLK AGGQIRIKQGGNSSSGAREPAPNINLSR RSWWTLVAKAAAVTVIIRVILMAAILRG TLAKEVNWVLDLTDPKNEAADPRAR HKDPSPHQTQEPSWLHSVDPIPGQVE LPASPTMCAGTSOPLVSRWDWSPWSRK RHIIFAP*SHNKYAGESFPGYDAIFDIEN KANSRLAWKEVKKHISIAAFTIQAAGT LKEVL

4780	12831	A	5663	2	773	LANFCIFSRDGVSP*WSGWSRTPDLR*ST RVGLPKC*DYRREPPHPPGLLPVFSHFA FGLFORRRRLFVCFFAFLRQSLALVTA GVQ/WHDLGSLQPPPPGFK*FCSLLSG WNYRCVPPRQANFCIF/M*RRDFTMLAR LYSNS*PQ/CDPPTSASQSAGITGVSHI/A RLAFVS/CYTHHTHTHTLA*IPFVSFPP NSLSPPLQQGFCPHHCTELTSYLKITNPV HVIRPNHGSALCILVQVSAPLHWSLSPLE
4781	12832	A	5664	2	415	LDPGSLAGFTSYQFMYDEFVEEYETK ADSYRKK/VAQDGEEVQIYIINTAGQEDY TAKDNYFHCVSFITEMESFAATVDFKEQ /LRVKKDEINPFLLVGNKSDLEDKRQVSI EAKNRAD*WNVIYVETSKT*AN
4782	12833	B	5665	151	1312	MMGGRIITGGIPGEAAVWGCSRFPATP SVPPPPAAAAAAVSSGNRLRHPQQV PRVLSREGGLAPRRGCPSSKGGSESTR VPRAGPRGESTGDRDPAPPPGPPSSHHF SPLRIERKADKPPENSGESSHDVASREQP LVLLAEHFRWAILLACHSMPTVGRKQV NNEIKTEIKKFFETSENKDTTYQNLWD AKISFFPDYSYFFMPISVLDAGGSETA KHHHQDVHEIQPHIEPQISLGSFEHPFGS CTIKEGTYYKRVVLDGEEVQIGILETAGQ EDYAAIRDNYFRSREGFLCVFSITEMESF AATADFREQLRVKEDENVPFLLVGNKS DLEDKRPVSVEAKNRADQWNVNYYE TSAQTQLMLTRHKPGTSSQS*
4783	12834	A	5666	3	955	LILLLLLLILLOPPRLPRHPSDSSDRSR RGAFQATRTTEYPPGGATQRLPEPSGRR TGSRCFFLLRLWRKL RHKMAANKPKGQ NSLALHKVIMGGSGGVGKSALTQPMY DEFVEDYETKADSYRKKVLDGEEVQI DILDAGQEDYAAIRDNYFRSREGFLCV FSITEMESFAATADFREQLRVKEDENVP FLLVGNKSDLEDKRQVSVVEAKNRAEQ WNVNYYVETSAKTRANVD/KEWPFLKTR WWNTCKYISSHCPAPVSRKTAHWAE VFFDLMRERARKMEDSKEKNGKKRKL SLAKRIRERCIL
4784	12835	A	5667	1	635	MAANKPKGQNSLALHKVIMVGGSGVG KSALTQPMYDEFVED*EPTKADSSRK RVVLDGEEVQIGYPLDTAGQEDYAAI RDNYFRSREGFLCVFSITEMESFAATAE FREQLRVKEDENVPFLLVGNKSDLEDK RQVFSRKRQKNRAEQWNVNYYVETSAK TRANVDKVFDDLREIRARKMEDIRYLL NGTKNTKRLAERIREGGCIL
4785	12836	A	5668	2	178	WGFTMLARLVNS*SQVHPPWLPKVLG LQALGSGSLHRSFTISVKGSSGFAPSRRL
4786	12837	A	5669	208	339	RGQRLPVSRKWL LGTEEAALR*STRLS LPKCWDYRHEPPCPAH
4787	12838	A	567	718	971	
4788	12839	A	5670	73	269	DKIFFFFF*DRVSLCRPGWSSVARSRLTA TSASQFKQFSCLSRPSSWDYRIHVPPRA NFCIFSRDR/SFTMLVRLVNS*PQVHLP RPPKVLGLQA
4789	12840	A	5671	1	586	KKPYECKECGKAFSSGSNFTQHQRHITG EKPYECKECGNFASQSSQLKHQRHITGE KPYECKEKEKAFRSGSDLTRHQRHITGE KPYECKICGKAYSQSSQLISHHRIHITSEK PYEYRECKGNFNYPQLIQHQLNYW**N RIYEMCREAFNYSKQNLSC**FL*IE*/C/ SKHFICGLQLIQPGKNNGEILYE

4790	12841	A	5672	2	355	LFLSFLFFSFFFFFETGPHSVAQAVVQWL NHGSLQPLSGPKQSFRLRLLSG*DYRC TPLRLASF*FFVEMGCHYYVAQAGQLL DSGDLPASASQRAGITDVSFCIWPFPMS YVKRT
4791	12842	A	5673	921	1086	TQPWYRHGGGGPKTLRQRSWSPCQAYH VPHACPSHHKNSRPRPWCPNATNML LSLKALQPPTLLSPLP*QVCRQGNPPKQ RCRGPAGATHHIPVHLWHSWPLLHILPA RISAVQPSFFPKETLQQAELQNRWVPL GPGKQVLRERPLSHQREKREQLTPRLL ARRPQAGEAARRQKGKTABGERG**D GPKSPSLVRARVRKRAGPKQPSASA*P GP*STPNPPTTQGSHPWREQAPATPMSS EEPVLVSQQTARP/RPSPGTGMGVGVLK PFVSVPGALAKLTMCPMHVLHITKTCPA AQGHGVHRMPQTCC
4792	12843	A	5674	2	70	
4793	12844	A	5675	2	118	
4794	12845	A	5676	446	756	ISFFLSFFLSFFFFEAESRSFTQIGVCSGI SAHCKLCLPGSHSPASAS*VAGTTGAR HHTRLIFLYF**KTGFHRFSRDGLDLLNL VIRPPRPKVLGLQA
4795	12846	A	5677	2	276	LRWSFSLVVQAGVQWCDLGLSQPPPSGF K*LSCLSLPSWDYRSAPPCANFVFLVE TGFLHVQQAICLELLTSSDLSTAS*QSAG ITRREQ
4796	12847	A	5678	60	235	VRVLQIYHSLRLPGSHHPPRGDRLQGRG FLTACQPC*STYC*IFPPGVLGNTGRDLL L
4797	12848	A	5679	1	2059	MSSOEVTFEORPEGDEGGAVELSRQQTQ QERRRLQGTQQLMYKWKAPKICSEDL GAVKLPASGVKTHCPCPNPGETKTNST CQPCPYGSYNSGSDCTRCPAGTEPAVGF EYKWWNTLPTNMG/TRPFSVGSSTSIR/C MTGWEVAGDHIYTAAASDNDMFILTL VVPGRPPQSVMAADTENKEVARITEVFE TLCVSNCEL YEMVGVNSRTPNPVETWK GSKGRQAYTYIIEENTTSYTCAFORITF HEASRYKYNDAAEIYSIIICHPY*MPWAS YAGPCAQKASEEGSSCTSPAGYVYIDRD SGTCHSCPPNTILKAHQPYGVQACVPCG PGTKNNKIHSLCYNDCTFSRNTTRITFN YNPSALANTVILAGGPFSTSKGLKYFHH FTLSLCQNGQRKMSVCTDNVTDLRIPEG ESGFSKSIYAYCQAVIIPFVIGYKAGV SSQPVSLADRLIGVITDMITLDGITSPAE FHLESGLIPDVIFFYRSNDVITQSCSSGRST TIRVRCSPKQTVPGSLLLPQTCSDGTCDG CNHFLWESAACPLCSVADYHAIYSSC VAGIQKTTYVMREPKLCSGILSPEQVR TCKTIDFWLKVGISAGTCTALLTVLTC YFWKKNQKLEYKYSKLVMNATLKDCD LPAADTCAIMEGEDVEDDLITSKKSLLG EDQIIVLQEDS
4798	12849	A	568	480	683	
4799	12850	A	5680	1	1098	
4800	12851	A	5681	143	571	
4801	12852	A	5682	3	355	FEIGSCSITQAGVQRHDLCSFLPPPGFK QSPRPSLPS**DHRCAAPPASCFI**RQ GFHVQGAQGLELLTSGDPPALASQSAGI TGVSHQAWPPPGFLDRILSIVSQKTIN RP
4802	12853	A	5683	1	2472	RYDLALWPRLECSGAITARNCKLLGSS NSPTSTSCIC*GYRLIFFKFFVDTGSCYV AQAGFKLPASSDPPPKMLR/YRP/GHHA R/LCLTVNRNTNP

4803	12854	A	5684	5	298	TGSRVAQAGVQ*H/DYOGSLQPPPPRP M*SSHL.SLPRNWDYSHTAIPAKLFFFL DTGSHYVAAQAGLKLGLSSDPSTASQSA GITGMSHRIOPHISF
4804	12855	A	5685	9	320	FIYLE/RDGVLLCCPGQSAVAFRLTVTS T/FL*SPDGE.LLTL*STRGLLK.WWDYKG EPPRPVFLFCLPNV**RCSLAML.SRLVLN S*AAQIFL.PQPSKVLGLQG
4805	12856	A	5686	2	438	FFFFSRLENFEFYNKPFCT.NPGPRGPPR VGPPFAPRRGAFSLPQGGPP*LLFSPPRN P/SGPLVRPGLPPTGALPCSVR*VDRSPLP YMVSPGPPGLRGGA/GPVPVHPRGPEAP PRARGRGREGGPAESVTRFPWQLRGHH FQP
4806	12857	A	5687	243	377	
4807	12858	A	5688	I	867	
4808	12859	A	5689	I	874	TVLAFADGCGVLAHGRSRSYGR.LGRRP YSREPLWSRGPFTMSDEARQSGSS QAGAVTVSDVQELMRRKEIEIAQ/IKAN YDVLESQKIGIMNEPLVDCEGYPRSDV DL.YQVRTARHNNIICLQNDHKAVMKQVE EVALHQLHARDMEKQA/RDMA/EAHKEA MSRKLQGSSEQPPRAFAKVNISIPG/SP ASLQGLQVD/IVGVSGSVNTQFQSLH NIGSVVQHS/EGGPGTHHPTFLCYEFDYS RDLI*KPLNVTVIRREKQHLRLVPTRW AGKGLLGCNIHPLQR
4809	12860	A	569	811	1481	GNGLLMVHHHCAGTVIMRADRFIPGE DQKNRVLVNTVLRISRADVKGHL.SAGI RHTVFRICHNACTQHRGLRFGNVFGEF LRFAFYILIVKENADQCAGFVGHIELGEID RVMQALPDVEQAVTHACVINQAAATGG DARQLVGYLVQSQGFNINGNRHLTTTIN PVGFPAK*GFPLMLPRVSGRNQHR/SR VYLPCTATTLRPGNGPPSSVRPRR
4810	12861	A	5690	30	512	TPVRDMAEAHKEAWMSRKLQGSSEQGPP RAFAKMNISIEPLPQPSIAGLQVDDEIVE FGSVN/TPQDFQSLQNNGNVQVHSEKG PPECDO*SARGEKHLQLVPMNAGPGK GULLGCNIIPSAKDELSPRGNKQEQHPS PCPRTWVLGDFTPCSSPLKA
4811	12862	A	5691	945	1358	KKQNFYTVHGFSCCLGRGKGQDRD.GW ESRDGRFLSRSLTFPQFAIRLVGQKEFS MLPKSFTLQILPRGSLSLPDQEQLSK*S MPHRAVQSPSRHALGNPKTAREGSAPRS PLTGRPRPPVAA*CRACRGAPQVARPP QGDQHRGFRGAHSDWRVWRGWASPSL LPRSSSSSGIANQASVPVPSGERS/RPAL GGRSGSSPCRRP/PPKPPWRGA/GS*SGT WRRWLAGWRTTRPRAPGACARPARGPP SWPSRPQTGLAAGLSGAPSVSPSCRCTP RRSRPPLPARWTPPGAPACRRRWS*SP GSTTAA
4812	12863	A	5692	3	316	FFFFFLRQSLDSVAQAGAQHNPGLQA PPPRFTFESRLSLPSSWDHRRPPCPTNFS AFPVETGFTV.LARMVSIS*CDLLTSASQ SAGTTGTSHRARPIIFK
4813	12864	A	5693	2	769	LAIYKHAGGVFSFILLQTLNTYGPQDQT KGSVLAYWRLPGLCIIIYLVKQSAKJFFS YYDINRQSVSKLQNVQQLPPDEIKELRQ VTMPAGVDKSSSTDQKYVQAGRRLGKVI QQSRLNCFPLVSYIETCLFILWRHLEY L/LHCFMPTDSQKSLFASRTLF*KQKDCQ GPSPQETQS*DF*KVGLAYSEANHGFT QLSGLMPINGFLENHYPKRNLDEI/LY SKVRFFGYSPQALVRRIRGLRISRN

4814	12865	A	5694	189	424	TLPISIYQSSPSGFHNYQFLASGVGATLPI TPHPTS/ELPYRVSPSPSPRPPS*FSRTF QPPV/V/GPAH*PPDEIVEFG
4815	12866	A	5695	243	1660	AEPDTSPI*TPGQSSG*GNTS/EPWTVTP PGLKMQQRVLCCTL*P/RRLPVCRPAA G*TRLDRA*ESGHPGPAVPREATGVPGA LPAQASVRSIWPALATCVATTVTQST/DA EVARQG/CPAPHAYPPA*PAI.CCPARA DPRGRVLQ**ADAVPGPPAI*AVHRAVS HPGGAQCPHPNPAPQAQARVPRETCLPAL QLAAPVLRGAGATAASAPTNEEEEEACLE EEEEEDSDEEDQRSKGDSEAWVPDSEE RLILREEFTSRMHQRFLDGKDGDFDYST VDDNPD/DFNDLIVARDEEERYFDEEEPE DAPSPELDGD*WPPPPPPPA/PSPSRTRQLI PGLLSDPFSRGT/AAVPHNPHTPSHWV *SHLRQPPPLFLGFFSSLPLCLPLSLFLV SVWASFCFLFLSCLSPYPRSLFVLVLA VSPFLPLSLCLRLCHRRQAQGESPLLAGQQ LAGFVAVSGQFGSGADP
4816	12867	A	5696	7	558	GWLDLGLTKVCV*NAEVPTCEWVRLMC MSVCASK/CGGGCGCLC/MASGHCECLG MCWSL*ACVFLSKNECLCVSLGTCQCL CLCVPSHHLICIRVAHAASLCAMVCQC LCVDGWPMSPRQGRPGWLDPAHLPSG SLALWVRVTEAPGLKTGCGSALRVA GGLPSLLPFRVLKRTPGGGGAV
4817	12868	A	5697	272	1146	GFLGLEPLSSSPQVAVATVPLWAQLO GGLAGSCLGQILAPGSEARDWWASLA GP*ERVEGADR/PWRFHLSPEALVLAAG R/SKARASDPGRSSTLSLLHVLKVEKRR VNLPRVLSMPVAGTACHAYDREVHLR CELSFGYLAVPSTFLKDAPGEFLRVFS TGRVLSAIRAVAKNTTGAALPAGEWG TGPIPG/CSWKFGQTAGGHKNFASYPTN P/CVPLGSPKPGPRCVRITLHQHCRALS DTEFHPIGFHIFQVPEGORSQDAPFLLLQ DPLLSCVPHR/TPRR
4818	12869	A	5698	281	535	
4819	12870	A	5699	I	1014	
4820	12871	A	57	I	1513	
4821	12872	A	570	961	1627	LPHPAVAVIQNVRSRGRFHGSPTLVVIPG NPRHSRTITLKLHGHVIGRVKFORHPG CQQAQFIETLRLQNKPNVVSSTGRPKG VMVGGQTAIVNRLWMQNHPLTGEDV VAQKTPCSFDVSVWEFFWPIAGAKLV MAEPEAHRDPLAMQQFFAEYGVTTTTHF VPSMLAAAFVASLTPTQARQSCATLKQVF ADLCREWQQLTGAPLHNGLCVFLMR
4822	12873	A	5700	155	2916	QQAAGVLPKGFYGTVPFQWRAQQQFQ TDKAKGLTFLGKAVHLS*HLEREQPPR FAQPGTYASRWKALEMEKQREQVDR NIREAKEKLEAEMEAARHEQLMLMRQ DPGLALVSCMQQGSMSRSPKCVFKHL YELNLTKLQSLGSRSLRWKDSPPFWGEE AGGKRPLVSLALHRSPLSLLLFVFKHPS KGRPDCTVQRSPK/TEKSQQLDLRECTSI HVGQAGVQIGNACWELCYLEHGQPDG QMPSD

4823	12874	A	5701	37	1542	PREPTPPA/PPRLQRTTRTRRCQFTIDIKSF LKPGVKTYTQKCRFLVGNLPTDIEDFD KRLFERVYGEPSVFTNDRGFGFIRLUESQ NPWAEIAKAEAGRAFLKSRFLRICFRL HMGAAFDCSRNLFSLLFFQLSCLQEAFS QFGS/VEKAGVVVDGRGRPTGK/GFVEF ASKNLPATKRL.WKRCDCGAFLLTTTPR PSPLWKPMEQDDEDGLAQRLLMHKTQ QY/HKERUEQPPRCSTWGLHKFEYQSR WKALDDEMEKQREQVDRNREAKEKL EAEIMEAARHEHQLMLMRQDLMRREE LRLEELRNQKQLQKRKQQLRHEEHRR REEDMIRHQNKQEGRLRQEQGFKPNYM ENREQEMRMGDMGPRGAINMGDAFSPA PAGNQGPMPMMGMNMMNNRATIPGPPMG PGPAHGTRRSRKYGNSQ* CQIMEQCTND RFFQGPSPQMGSPMGSRTRP* NPKHPM SGVGPVSGGPGFGRGSP*GNGFEGPNN RRRY
4824	12875	A	5702	81	334	HNVHC*VPOGEVGSVHCWWNGDNLFI PS*KVSWKYESRAFKTSRPLDPTPLLLGI QSK*/YNKGHKDLDIRILITALFVVTCKKL
4825	12876	A	5703	3	448	WGPEP*/PTRPTLDEGPGCGCGCSPLP MGPPRGRGPPITMSLLCRWPGVPLGSP GCPPRARVKLFPHPGPDVSTSPWAGHG AHQDP*GPVSGSESPPAGHWAAPPASTS SPKIQAGL*PE/GMRTAQPPSAVGSPQG SFRHKEGWG
4826	12877	A	5704	1	206	GSL*SPSPRFRFSCLSLSSWDYKHPVP HLANFCIF*RDWVSPCWLGWSRTPLDH LSWPPKVLGLPS
4827	12878	A	5705	32	401	AFPDKLWPNFRLCQVNRGISEWAGMS EMGMSDIQLSVGKLVAR/CWLQAEI*G* QFTKQER/CPSLTRSRWHQPREGQAE PFLCAPPEGAPIGLR*/HHLRVQLAMAWI KFKMLGQSPFYI
4828	12879	A	5706	252	415	PFCRPPRADSVTKQER/CPSLTWIRWHQO PQGGQAEPRFLRAPPEGASTGFLRQHH
4829	12880	A	5707	2	164	FFLYLFLFLRWSLDSVIQAGVQWHDI CSLQPLPPGFK*FSDCSTVLQPGRQSETG LKYFFITV*EMESCSVIQAGVQWHDLNLF PATASWVQVILRLHCTPAWATE
4830	12881	A	5708	1334	1706	VRPHEGARAGPGGRGRGDPGLGARALP QPRVAVAGAACQPPSRLRHAGHRPMPV H/VGGSTLFGGRQ*LSHSSSTRQCPSRD SVWGLQPHISLLHCPSRGS*GPHCHRL LPGHPGISILL
4831	12882	A	5709	57	376	KRGSLSGCPRPVQW/RKTLAQLQPSKL PGLK*TFP/CLSLK*TGHTCAPLCPNFF VFLTYLIEMGLTMLPRLVSYFWPQVFP SLASQSTGITGVSHIALAWWSMQ
4832	12883	A	571	803	1403	FNRRILKINGLTREQTSVGQQIRQALSA LPLPVNRLEEDNCREAWRKCAWLKD IESARLQHNQAYTEAMLTEYADFFRQVE SSPLNPAQARAVVNGEHSLLVLGAGSG KTSVLVARAGWLLARGEASPEQILLGL VAKPLKRWTSGFANGYIPKTLPHARFMR /*ALHHQQGSKKVPVSKLENTACRHEL FIA
4833	12884	A	5710	9	264	PCPPNTIN/CPLGLRLCP/PHLCPSCLGLK VGGP*KVPQPTSLGETELEQKKPPVPM SGWTGGRNGGWEKSLRGKERRVFSQEG FP

4834	12885	A	5711	124	770	QYFPPTATHGNVKKSLLSGKASLKRLHRV CCSCLFYIVQKQPKNLKTLFRQSYICDQT TFRKSKGIINIKFIFFFEMESRSVAQAGM QWRNLGSLQ/PPPPGFMPLSCLSLSSWD YKRPPPCPANFFVFLVETGFTVLARMVSI S*PCDLASTSQSAGITDVSHHAWHIKFK PEVTWRERGREENHVDRHIFRLDIRFTDT HFIKKELMRSDTL
4835	12886	A	5712	2	232	CLSLSS*YGRMSRPFANF*FLVETGFH HIGEAGLELLTLGDPPASASGAGITGV QRGSLFAFLMSSTSFCK
4836	12887	A	5713	1	242	QAGVQWHDGLGSLQPLPLKQFSCLSLF SSWDYRRVPPRLANCFDFLVETEHHV GOADLERLRTSGNLPTSASQSAGITGVSH HA*PKVLGLQV
4837	12888	A	5714	1	133	ERLRYFRVEHLDQRLKAAENKFSYICLM TWLKCQFWCLEKFKFLNRNAYIMAIY GTNFTCSARNAFFLMNRIRVAVLDKV TDFLLGLKLLIVGSGILAFFFTTHIRI VQDTAPPLNYYWVPLTVGVSYLAAHGF FSVYGMCDVTLFLCELEDLERNDGSAER PYFMSSTLKKLLNKNKNAES*RLRYF RVEHLDQRLKAAENKFSYVHDLAQMR LLVPGEVHOIP
4838	12889	B	5715	166	969	MGSACIKVTYKFLFLNLIFFILGAVILGF GVWILADKSSFSIVLQTSSSSLRMGAYYF IGVGAVTMLMGFLGCGAVNEVRCLLGL YFAFLLLLIAQVTAAGALFYFNMGLKQ EMGGIVTELIRDYNSSREDSLQDAWDYV QAQVKCCGWVSFYNNWTDNAELMNRPE VTYPCSCVKGEEDNSLSVRKGFCEAPG NRTQSGNHPEDWPVYQEGCKEYQAW LQENLGHILGVGVGVAIHELLGMVLSICL RHVHSEDSYKVPKY*
4839	12890	C	5716	300	347	MIHLPRPPKVLGLQA*
4840	12891	A	5717	316	797	APALPQPTGLAASSHMVQVPLWICLKLS HSKSRNSPQLFF*VFQFLRRSLSSVPQAG VQ*HDLSSLQPP/PPGFTFPCSLSLSSWD YRCPPPRAKFFLYF**RRGFTMLARMV SIS*PRDPPASASQAGITGVSHRARPPPP QFFIQLPLYNIHTLEGR
4841	12892	A	5718	2	519	WHQSDVQAEVQWRDLGLLQSSPP/GF TLFSCLSLSSWDYRPPPRPG*FLYF**R RGFTVLARMVSI*LDHPALASQAGIT GVSHRTRPGADL*PRVQKPRASLGG*NH MCNMXSLPTGQTRLNKGRRLGHPDHW RWKETPGL*CFHGNFCGALKAGRAHLD GQGR
4842	12893	A	5719	1	663	
4843	12894	A	572	3	1642	
4844	12895	A	5720	1	1561	MATSTGRWLLRLALFGFLWEASGGDL SGASRDDDLLPYPRARARLPRDCITVR AGNREHESWPPPATPGAGGLAVRTFVS HFRDRAVAGILTRAVEPLRTFSVLEPGG PGGCAARRRATVEETARAADCRAVQNG GFRMNSGECLGNVVSDERRVSSSGGLQ NAOFGIRRDGLVTGYLSEEVLDIENPF VQLLSGVVWLIRNGSIYNESQATECDET QETGSFKFVNVNISARTAIHDXRGQLV LFHADGHTEQGINLWEMAEFFLLKODV VNAINLDGGGSATEVLNGTLASYPSPDH QODNMWRCPRQVSTVVCVHEPRCQPPD CHIGHGTCVDGHQCTGTHFWRPGQDE LDCGFS*LAQHGLCNGSTGLSAVDAG WTGSNCSECP*LGWHGPGCQRCKCEH HCPDCKTNGCSVRVKQLQPEATLR AGELSFTTRTALALALAFILLISIAA NLSILLSRARNRLHGDYAYHPLQEM

						NGEPLAAEQPGGAHNPKFD
4845	12896	A	5721	1119	2008	ALHPPAQGELFCDYFKDPSWSEGPQSP LTRLAPHQOTCETELSGGRRGSAVLEEC VPTPASAHLAASPAEAGTAGVWR*RIHI F/HSTGLLGR*LSMSLIMS*CKAGRCPP GEDCPRPLPGCSLSPLERKLCFSSA*GPA SPLGGLTAKASGCSLSLR/HSHIQGHGL WEKL*VPARRAGGVCFKSA/PHLQSL** KPPSKASKREG*Q*TLPSATIGELPFK*HA PKHLCNAQGLCKIH*HIK/QTANAIA* GGPGSLEGTLLRRPGSPSSSLGVSGKTEV NSONCRHILGREGVS
4846	12897	A	5722	3	444	FFFFLRLQSLNSVT*AGVQ/QPLPPEFKRL SCLSLPSSWDYRCAPAHSANCFISKD/M GFTMLTRLVSNWSWQ/CELPITASQSGIT GVSHHTQPIYHFIYVETEFHHVAQAQGVK /PSSLK*SSRLSLPKQWNYSHPLYPALF NETFFFK
4847	12898	A	5723	1	6738	
4848	12899	B	5724	107	467	MRLHETLKQCODLKTEKSQMDRKINQL SEENGDSLQFLREFASHLQQLQDALNEL TEEHSKATQEWLEKQAQLEKLSAALQ DKKCLEEKNEILQKLSQLEHLSQLQD NPPQEKGEALX*
4849	12900	A	5725	149	577	GLLSTRPISCRHTL*GPLQSSWEYMDVP WDLRASEGNGKLLYSARDCTLQIHSVF QKLDVEEPPDSANSSFYSTRSAPASQASLR ATSTQSLARLGSPDYGNALLSLPGYRP TVTRSSARRSQAGVSSGAPPGEGTTGTYY
4850	12901	B	5726	24	219	MPRSSRTKSCRSSCGAWSSCMKENKELR AEAERLGHLELQQAAGLKTEAEQTRHL TAQVRSLGITX*
4851	12902	A	5727	272	683	
4852	12903	A	5728	1	406	
4853	12904	A	5729	211	5508	IWCLFPLSVHMGILYSQKCLEEKNEILQG KLSQLEHLSQLQDNPQEKGEVLGDVL QLETLKQEAATLAANNLQARVEMLE TERGGQEAELKLAERGHFEEKQQLSSLT DLQSSISNLSQAKEELEQASQAHGARLT AQVASLTSETTLNATIQQQQELAGLK QQAQEKQAQLAQTLLQQEQASQRLRHQ VEQLSSSLKQKEQQLKEVAEKQEAQTRQD HAQQLATAAEEREASLRERDAALQLE ALEK

4854	12905	A	573	114	5270	SARSASFRPGRPAARRPKCSHPI.VPDGV PECCCKVHPASTNFRRTSTAARHSHHN DGSTSTMGRTWQI/VGYLVSSQSGI.PLD SALQAQI.RETI.PPHMVPEVLIQLPOLPI NANGKLDKRALPLPELKAQAPGRAPKA GSETHIAAAFSSILGCDVQDADADFALG GHSLLAAMKLAQI.SRQVARQVTPGOV MVASTVAKLATIIDAEEDSTRRMGFETIL PLREGNGPTLFCFHPASGFAWQFVLSR YLDP
4855	12906	A	5730	111	407	NLLRTMIFWFGFEDRVWLCCPVL.TATSV LTATS/TFPGFKQFCSLI.SSWDYRCIPP HPGNL.WYF**RQGF.TMLARLDNSNGQA IHPQPPKVLGI.HV
4856	12907	A	5731	3	613	GLRALRRGGGLPGL*CCSRPQSPRAQG HPSMGGMQVRVTPPRGMA.SVGPQSYGG GMRFPFNSI.AGPGLFAMNMGPGVRGPW ASPSGNSIPYSSSSPGSYTGPFGGGGPPGT PIMPSPGDSINSSENMYTIMNPIGGQAGR ANFPLGPGPEGMAAAMSAMEPHVNGS LGSMDMDGLPKSSPGAVAGLSNAPGTPR DDGEMAA
4857	12908	B	5732	134	471	MYAKGGKGSAPVPSDSQAREKLALYVYE YLLHIGAQKSAQTLSEIRWEKNIMPSPG DSTNSENMYTIMNPIGGQAGRANFPLG PGPEGMAAAMSAMEPHVNGSLGSGD MDG*
4858	12909	B	5733	223	692	MEPSRAQGHPSMGGXMQRVTPPRGMA SVGPQSYGGMRPPPNLSLAGPLPAMN MGPGVRGPWASPSGNSIPYSSSSPGSYTG PPGGGGPPGTIMPSPGDSINSSENMYTI MNPIGGQAGRANFPLGPGPEGMAAAMS AMEPHVNGSLGSGDMDG*
4859	12910	B	5734	228	292	XLARDDHERVMGRQPRASLRA*
4860	12911	A	5735	1	1753	MYAKGGKGSAPVPSDSQARENLSAQAA TEL.TSLDRLALYVYEYLLHIGAQKSAQT FLSEIRWEKNITLGEPPGFLHSWWYVGL GCCGVFWDLYCAAPDRREACEHSGEAK AFQDYETPERPAHRHGNAGRAGSSSGMI DVGGSSDPQLRPTTPVCSL.TNASSLSHG AGHLQRGGGTPQSAAPSPVMGSMAP GDTMAAGSMAAGFFQGGPPGQSPSPHNP NAPMMGPHGQPFMSRPFPGGPRPLTRD GSQPPAGPPWVPSPSPGAMPEPSRAQG HPEHGRPNARGVTPPRG/MGPAWGPRA YGGGMRPPPNLSLTPRACLPMNMGPRK FVGPWAQPPVEYSIPYSSSSPGSYTGPP GGGGPPGTIMPSPGDSINSSENMYTIM NPIGGADRANFPLGPEGPMMAAYGA GMEPHVNGSLGSGDMDGLPREFPQAP VAGLSNAPGTPRDDGEMAAAGTFHAPS SQSEYNSPGMTMSRVNWAAPGALCG PRLPRRCLRAKGLKVTPSGTLD.SLAN QGLPMLGPTKRTL.TILLKTQGPREFTS VWTLPAICHLVPERKALWGGSSPGRQG GGAH
4861	12912	B	5736	315	458	NGPSRTQOPSLIDVLYCPEAIVSLVGVL RLAACQEHKRAPEVYVAF*
4862	12913	A	5737	202	402	
4863	12914	A	5738	1	3156	

4864	12915	A	5739	1	1470	MAPEENAGTKILLQSFERRFLAARTLRS FPWQVGGGASGEACGACGSGADGGMG LPAETPGAPATEGSHSALPTHSIACFNVP VNAPLRFSLPSTRSLEAKLRDSSDELL RDILQKHEAVHTELLDEL YEALAEITLMA KESTQGHWSYLLPRYPSTCDKVKTPRKA RSHSPSTAISHGTTGLVTWDAAARYLAE WAIKNLAAFTNRTVLELGSAGLTLGLS1 CKM/WPPPDHLDHDCSHRVLEQLRGNVL LNLGLEADITANLDSPRVTVAQLDWDV ATVHQLSAFQPDVITADVLVYCPAIVSL VGVLLRRLAACWEHQWAFVYMAFTVR NPETCQLFTTELAPSTCEGVLSLHLDK NTRTHRGQETPELPQIAARPTGFSFTVH PSPPLPDDFAPAPPEHSPSWQPCAUMHPQ QPLPAHRMDMDPVVHVQGPVNYRANK QASTRRHTGFHDRVPHNLAQEAGQAWG SGLSSQHFRLRQED
4865	12916	A	574	1	2967	
4866	12917	A	5740	2	413	
4867	12918	A	5741	3	231	
4868	12919	A	5742	83	1503	SWNTPYNHWATKQ/LSSHYSRGGAKYE GEAVKQSLVESYTHFNSNETERSANIDT VMNWFTEKEDFDVTLCYREPNDVGHFR RPEAENRKLMIQIDRTIRPWDDHREBET QCQDPLSNYIKFMDLVKFDIVGYGGFG MPLPKLQGEALYQALKNAYPHLHIYK KEGFPEHFLAKHDRVLPVMYANFGYS INGISLLYFYTHLCDKYFNVHFHEPLSL WRAQTTPSLSHRYISLVRHMDATNLDS EAQLPGSPYDPAFPAFLDSTQDLFQR RLSWPYPRPRPNAHPGALQAPRITLL TLPPGAPSLPRTALGPPPLQSRPGRFPV SRQRCGPAHMAPEENAGTELLQSPER RFLAARLRSFPWQGGGGAERAPAGLA GVQQGTGWWSVLKPPALLPREFLGSPRS GPRDPVPVPGA WPKSLAPLLPRELAAED EGVSTALGGQTRARCGVQFTIITTF
4869	12920	A	5743	266	477	DFSLSRPHGA*KQN*ETHQILSC/GDILH KTVK/HSCVCEAPAVRQICPVLSLRTHQK ARGCPHRAFGRAV
4870	12921	A	5744	148	592	SHVALGQLGWLTRAVRSSWRWELCVSS TGSGLPAFSLKQPKSCRCW*EEVKTGSC VGISHWQTST/VFPQAVFHLPPVLLPRSL ACLSRCPGCAQIR/CQ*TPPYPLFPIITYS FGMLSTTVLRHILETNKKEKSLAAEGV RHLOVS
4871	12922	A	5745	164	667	ERGTYICQITTSLYRAQQIQLNIQASPKV RLSLANEALLPTLICIAGYPLDVVVM WTREELGGSPFSLWSSFSKPAKALAG TYSISSSLTAEPGR/LQVPLYTCQVTHISL EPLGASTPGCPTRAENSLGSHLQQSLP SCTDVPWGFDRDQOAPNRTWAASG
4872	12923	A	5746	1	790	VEELSKKLADSDQASKVQQQIKLVGQL GEVWWPLDKGGKLFSLWGRGGVLVYK WFLLIYKISYATGIVGYMAVMFTLFLGLN LLFKIKPEDAMDGFSLLFYGLYGVGLER DFAEMCADYMASTIGFYSESGMPKHLIS DSVCAVCGQQIFVDVSEE/EDH*EHRCS/ CFHEFCIRGWCTVGKKQTCPCYCKEVDL KRMFSNPYPLLGSLLGVGCGKVLASVT CIWVLLGPSLLPPTRTCTQTMNNKKIMKV MMRIKRMMDTDMAS

4873	12924	A	5747	1	1005	FRGRAVKMAAVVEVEVVGGAAGEREL DEYDMSDLSPSEQWRVVEHARMHAKHR GHEAMHAEMLVLIJATLVVAQLLLVQW KQRHPRSYNMVTLFQMWVVPYLYFTVKL HWWRFLVWILFSAVTAFTVTRATRKFPL VQTTPRLVYKWFLLYIKSYATIGVGYM AVMFTLFGNLNLFKIKPEDAMDFIGISLLF YGLYYGVLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQIFVDVSE EGDHETTYRLSCNHNSEHFCRGWCIVYG KKQTCPYCKEKVDLKRMFSPNWERPHV MYGQLDLWLRVYLAWQPVHIGVQGIN YILGLE
4874	12925	B	5748	99	236	XTTSTSTVTVTAPGAATGSPVKKHRR LLPKETAPAVQVRVVVNSX*
4875	12926	A	5749	1	783	
4876	12927	A	575	1882	3402	LDASFWIPPKATQGMTWIFTFSSPSYNS S/CYAGWLKGSAPLQLSQPHHTAYIIFTS GSTGRPKGVMVGQTAIVNRLW/MQNH YPLTGEDVVAQKTPCSFDVSQFFAEYGV TTTHFVPSMLAAFAVSLTPOTARQSCAT LKQVFCSGEALPADLCRVVQOLTGAFL HNLYGPTAAVDVSWYPAFGEELAQVR GSSVPIGYPGYLGRFDLTASRFADPFAI PGERMYRTGDVARWLDNGAVEYLGRS DDQLKIRGQRIELGEIDRVMQALPDVEQ AVTHACVINQAAATGGDARQLVGYLVS QSGPLDTSALQAQLRETLPPHMPVTVL LQLPQLPSAKAGCPAAQVPRVAQVRV CAVLEDLGDIRESEGERKQEAQAVLGTQ DTPRVTSQPNGLLLKIEPQENVKIEGQHQ GLVWLVAASPVLRVTRKEEKKKEE GNNMRFTSLVLSVLVNIWRALEKKVLDI MFNNCRITGVQAITLSHRRALAIJALAR YIKSALYDG
4877	12928	A	5750	1	1626	
4878	12929	A	5751	1	542	CGWNTGYCD/VPCQQAHPHEHIKSTQS ATALQOGADVENVTEPLNKSSQSSSST QSAPSETASASKEKETSAEKSEGSTL DLSSGRETPSSILLCSNQGSVKRCDKAT LLCPNHHRPAPQPRPEVFPPEL*NSR LSPVPFKKKGIRKRVIPNTSTSTKSLPK SRLDTFW
4879	12930	A	5752	1779	3628	MEISEDVYTAGHSDSEDSEKSDSSDSEF ISDDEQSKDEPEDTEDKEGQOMDKEPS AVKKPKPTNPVEIKEELKSTSPASEKAD PGA VKDKASPEPEKDFSGAKKPSHPHK DKLKGDDETDSPTVHILGDSSENELVI DLGEDHSGREGRKNKKEPKEPSKQDV VGKTPPTTVGSHSPPTVLTTRSAQTS AAGATATTSTSTVTVTAPAPAAATGSPV KKQRKLAIPEKETAIAIVQVRVLEIK*SF KRPPKSGTCRRCVSSSSSSSKTSSSHQS SQGTRYQTRQAVKAVQKEITQSPSTSTI TLVISTQSSPLVTSNGSMSTLVSSVNADL PIATASADVAAIDIAKYTSKLMDAIKGT MTEIYNLDSKNTTGSTIAEIRRLRIEIKL QWLHQQELSEMKNLELTMAEMRQSW EQERDLIAEVKKQLELEKQQAQVDETKK KQWCANCKKEAIFYCCWNTSYCDYPCQ QAHWPHEHMKSTQSATAPQGEADAENV TETLNKSSQSSSSTQSAPSETASASEKFK ETSAEKSKESGSTLDLSSGRETPSSILLGS NQSGDHSRKNKSSSSSDEKRGSTRSDH NTSTSTKSLPKESRLDTFW

4880	12931	A	5753	2	1711	RSEDSKSDSSSEVISDDQKSKNEPED TEDKEGCOMDKEPSAVKKPKPTNPVEI KEELKSTSPASEKADPGAVKDKASPEPE KDFSEKAKPSHPKIDKLKGKDETDSP VHLGLDSDSESELVIDLGEDHSGREGRK NKKEPKPSPKQDVVGKTPPSTTVGSHS PPETPVLTRSSAQTSAAAGATATTSTSTV TVTAPAPAAATGSPVKKQRLPLPKETAPA VQRSCGTSTTVQKQETQSPSTSTITLVT STQSSPLVTSSGSMSTLVSSVNADLPAT ASADVAADIAKYTSKMMDAIGKMTMTEI YNDLSKNNTWKAQLAEDSQGLRIEIKL QWLHQOELSEMKNHLELMAEMRQSL EQERDRLIAEVKKQLELEKQQAVIDETKK KOWCANFKKAIIFYCCWNTSYCDVPCQ QAHWPEHMKSCCTQSAYCSSSRKADA VNTETLKLSPSQGSSSTQSAFFRKRPA SKEKETFLRKAKESGSLDLSQRETPS SILLGNSQGDHSRISNKSWSSSDEKRG SSTRSDHN/TPSTQHGRSLLPKESRAGTP FLGTSK
4881	12932	A	5754	1	191	MQK*ITAWAPAMKIKIILASPERKYSVWI GGSIWQSLST/FQQMWSKQYDESGPSI VHRKCF
4882	12933	A	5755	2	1203	LSRRQQLSHSVLPPLRRRVSLVAMEEEI AALVIDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGVVMGGMQKDSYVGEA QSKRGILTLYPIEHGIVTWNDDMEKIW HHFTYNELRVAPEEHPVLLTEAPLNPKA NREKMTQIMFETPNTAMYVAIQAVLSL YASGRITGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAQRDLTDYLMKILTERGY SPTTTAEREIVRDIKEKLCYVALDFEQEM ATAASSSLEKSYELPDGQVITIGNERFR CPEALFQPSFLGMESCGIHETTFNSIMKC DVIDRKDLYANTVLSGGTMYPGIADR MQKEITALAPSTMKIKIILASPERKYSVWI GGSILASLSTFQQMWSKQYDESGPSI/V HRKCF
4883	12934	A	5756	3	412	SRFPEGLFPFFPPGMKSCGHIETTFHSH/ IKFPDVAIRKDLYANTLLPGGNHQVSGAL LTGMQKEIHAPAAQATLRFKIIAPPGSAS TRW/VGSVGSILASLSTFQQMWSKQY/ YDESGPLHSSTAKCFLNGLSOLA
4884	12935	A	5757	1	2297	MGRDWNLSLESLEEDRCMRSELEHARDL LNCCDQONADHMDSEVQAQEVVSEGDDEE LIGKWSKAYCHRCEQKDDLKWELIFKRE AEHKSLEILQPDHIVEKKNPGGGRNQST SSSWVGTVAEITTHAEVKCIQVLQQA DDAEERA/ERSQREFREERRARE/QAEAE VASLNRRIQLVEEELDRAQERLATALQK LEEAEK/SLADESERRY*RLFENRALKRI. KEKIGTSREIQLKAEAKHIAEEADRYEE VARK/LVHIEGDLERTERA/ELAESRCR EMDEQIRLMDQNLKCLSAEEKYSQKE DKYEEIEKILTDKLKEAETRAFFAERSVA KLEKTIDDLDTNSTSGDPVEKDETPFG VSVAVGLAVFACLFLSTLLVLNKCGR NKGFINRPVLAPEGLAMSLHFMTLGG SSLSPTEGKSGSLQHIIENPQYFSDACV HHIKRRDIVLKWELGEGAFGKVFLEACH NLLPEQDKMLVAVKALKEASESARQDF QREAEALLTMLQHQHIVRFVGVCTEGRPL LMVFYMRHGDNLNRLSHGPDALLA GGEDVAPGLGLGQLLAVASQVAAGMV YLAGLHFVHRDLATRNCLVQGLLVYKI GDFGMSRDIYSTDYRVGGRTMLPIRV MPPESILYRKFTTESDVWSFGVVLWEIFT YKGQPWQLSNTAEIDCITQGRELERPR

						ACPPEVYAIMRGWCWQREPSNATASRMC TPGCKPWRHLLSTWMSWARGPAQGLG VVSRTGACQHPF
4885	12936	A	5758	3	636	WAWNQAEEVASVNGRIQLVEEELDCA QERLATALQKLEAGKADESERGMKV IENRALKDEEMELQEIQLKEAKHAEAA DRKYEEVARKI.VIIEGLERTEERAELA ESRCREMDEQIRLMDQNLKCLSAEEK YSQKEDKYEKEIKLNLKLEAETRAEF AERSVAKLEKTIDLEDKLCCTKEEHL TQRMLDQTLDDLDEM
4886	12937	A	5759	1	239	QCCSGOOTHONPAIGDRMQKQLPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGFSIVHRKCF
4887	12938	A	576	22	413	
4888	12939	A	5760	3	1458	ADPPPVHTRRQLTMDDDIALVVDNGS GMCKAGFAGDDAPRAVFPISIVGRPRHQ GVMVGMGQKDSYVGDEAQSQRGILTLK YPIEHGIVTNWDDMEKIWHHTFYNELRV APEEHPVLLTEAPLNPKANREKMTQIMF ETFNTPAMYVAIQAVLSLYASGRITGIV MDSGDGVTHTVPIYEGYALPHAILRLDL AGRDLDYLMKILTERGYSFTTTAEREIV RDIK/EEAVLRRPGLRARDGHG/ASSSLE KSYELPDGQVITIGNERFRCPEALFQPSFL GUMESCGIHETTINSIMKCDVDIRKDLA NTVLSGGTHQFPLPCRP*KKITALEP ATMKTRUIA/PPEAQSTPLWNRGAPILAS LVHLPAKMWDQKSREYDESGPLPFVHR K/CFF
4889	12940	A	5761	171	324	
4890	12941	A	5762	3	383	
4891	12942	A	5763	2	314	FFFFISALKALFAFLQILLFQVNVLRITAH IVISFINLLSVTFKAPLLAFIFCREDYSF TAYATISYLKIGPKANLNN'EAYVIT/MQ VTKSTQNSFRVNGY
4892	12943	A	5764	1	176	MRTFALLTAMLLVVA/HAQAEPLQARAD EAAAQEQPGADDQEMAHFTWHESAA LPLSA

4893	12944	A	5765	1	2674	GKHKLLSTGPTPEWSIREKLCCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCAQSYSELLETETTPKRRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETOER YRRLKRDAELIQAGHMDSRDLDELNDIA KKKLEEEAEVKKRATDAAYQARQAV TTPRRLPTVMVRSPIDSPGDDYPLGDL TPTTMEEAATSGVTPGTLPTSPVTSFPGIPD TLPFGSAPLEAPMTVPVTDSPQKMLGQ KATPPSPPLLSELLKKGSLPTSPRLVNES EMAVASGHLNSTGVLLVGGVLPMMHIG GEIQQTPTNTVAASPAASESVSQATIVMM PALPAPSSAPAVSTTESVAPVSPQDNVCP MEAVGDPHTVTVMDSSEISMINSKEE CFRSGVAEAPVSGKAPSIDGKEELDIAE KMDIAVSYTGEELDFETVGDIAIEDKV DDHPEVLDVAAVEAALSFCEENDDPSL PGPWEHPQQERDKVPVLPAPEMIVKQE RLDFEETENKGIHELVDIREPSAEIKVFPA EPEPVISGAIEVAGVVPATSMPEPRLRSQ DLDEELGSTAAGEILEADVAIGKGDETPL TNVKTASPEMSPSPHSGNSPIEDPLEAE TOHKFEMSDSLKEESGTIFGSIQKDPAGE DEEEDGVSEASLEPKEEDQGEVYLS MDNEPVPVSFDDGFSIHNLATQSHLAD SIPSPASSQFVSCSDQEAQAKIWKK AIMLVWRAAANHRYANVLQPVTDIDIA PGYHSIVQRPMDLSTIKNIENGLIRSTA EFORDIMLFQNAVMYNSDDEHDVYHM AVEMQRDVLQIQOFLATQLIMQTSSEGI SAKSLRGRDSTRKQDASEKDGGRGR CAIEADMKMKK
4894	12945	A	5766	1	419	YANVLQVPVQDDIAPGPSIGQRVPMDL ST/KKCN*NG*SEAPADFQR*HMLMFQN LLMYHSSDHYFYHIAVEMQRDVLQIQ QFLATQLIMQTSSEGISAKSLRGRDSTR QQDASEMDGTRGRIRCAIEADMKMKK
4895	12946	A	5767	2	111	ISAKSARGRDSTRKQDASEKDSVPMGSP AFLISLF
4896	12947	A	5768	3	2884	GKHKLLSTGPTPEWSIREKLCCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCAQSYSELLETETTPKRRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETOER YRRLKRDAELIQAGHMDSRDLDELNDIA TKKLEEEAEVKKRATDAAYQARQAV KTPRRLPTVMVRSPIDSPGDDYPLGDL LTPPTMEEAATSGVTPGTLPTSPVTSFPGIP DTLPFGSAPLEAPMTVPVTDSPQKMLG
4897	12948	A	5769	3	627	PRGENRFAQPEWRKTPCQMMLSQSTF RKTYIGKIFTILALPYVGKELNMIHML PDEYTDLSTVEKDSHAKFVWTSMDM MAEEVEKLSIPRFKLEESYDMESVLRNL GMTDAFEAGARANFSGMSQTDLSLVQR SCTKSICGRSNEGRPREAASPPKVAJMM MRCAIRFCPPAPDHPFLFQIHRKTN GULFCGRFSSP
4898	12949	A	577	1	2148	
4899	12950	A	5770	3	626	YNLVTPR/LAVLSFEKDDDHNGHDFITA ASNLRAKMYSEPADRFKTRIAVKIILV KPTTTGTVSGLVCFEMIKVTGGYPFAAY KNCFNLNLSH/IVVFTTETTEVRKTKIRNG ISFTIWDRTVTHGKEDFTLLDFINAVKE KYGIEPTMVVQGVKMLYVVPMPGHAK RLKLTMHKLVKPTTEKKYVDLTVSFAPD IDGDEDLPGTSK
4900	12951	A	5771	92	265	SFELFADKVPKTA/WLDGKHVVFVGKVE GMNIVEAMERFQSRNGTSKKITADCG QLE

4901	12952	A	5772	I	1310	GNSPPSELKWKAKSEDLRHRGLKAQAEI KGSTQOIGFTTDPMRARSSFYITDVARV VNAPIFHVNSDDPEAVMYVCKVAAEWR STFHKDVVVDLVCYRRNGHNEMDEPMF TQPLMYKQIRKQKPVQLKYAELLVSOQ VVNQPEYECVSMHGVRNKPSYNSTKSS MDGLILHPATGLVVFVLKQCEEIHQPVV WTCEQREAEENATAEENRVLAMVNPVT FFDIAVDGEPGLGRVSFEVGRAAACGNGA QKVGGRGRENFPCL*ATGEK/GFWL*GVP CFHRLFPRLVLCVQGGEQQRH*WPLVG KPHSMGKKI*KIEELPSLKHGTGSPGILSP WQNAQGPOTTNFGPFSICTAKTEWLEW PSHVVFVWHK*KEGWNIVEAHWSRFGIS RINGKTQQRSPFADCGQLLISLTCVFILT TKIISFCRLRRAPLOPHLLAVS
4902	12953	B	5773	47	204	XQHTFCCKRCGVQSFYTPRSPNPGGFIAF HCLDEGTVSRMSMVTIEFNGSDWEKA*
4903	12954	A	5774	2	402	CGDRGALRPSPCAGRSGBPGRPPRPPRP LPWHFAPAHGAFLARPGARRARSEKPP SEKPRLRSSPRAQEGGPGPPPELALLP PPPPPPPTAIPRRPRPPGPGRAAGALG DVPEAAEAYLERVPPSC
4904	12955	A	5775	2	241	FSCLSLKSWDYRALPPSPANLFLVETG FHHVGQASLKLITSGDPPASASQTVGIT GMSHHAWPYSSFYIWSHWAPRNS
4905	12956	A	5776	22	643	VVEFPVLTMAATSGILSALGNFLAQMIE KKRKKENSRLDVGGLRYAVYGOFFFTG PLSHFFYFFMEHWIPPEVLARVRRLL DRLFFAPAFILMLFLLMNFLEKGDAST FAAKMRGGFWPAAEDETCTRVWTP/LQF ININYPVFSSGCGFFGQPGQLLFWYAYL ALLGEVTRTWEINIRCTCRGSGGLHPPK REQPIQSGCH
4906	12957	A	5777	23	448	ELESRSVTQAGVQWCDLGSLOPPPL/SF KQFSFLSLSSWYDRHVPPCANVILVE MGLVGQAGLELLISSDTPISVSQAGHSV SHGTQPHIGNFLEQLKVVLQCYTSLCFT KSSTVKHIQLIHIKITLRNTKNKARI
4907	12958	A	5778	25	396	ISGRSTFLSFRQGLSALSFRLECVSAISA HCNRLPGSSNGTGA*HHTRLILY/LA EMGFHHVQAGFEVLTSNPPASASTSA RITGMSNRTGHLFNHFP*MCYKYRCGS LAGRGGRSW
4908	12959	A	5779	80	460	YISLNVITHLIFFFFLRQGLCSVTQAGV QWCNLSLOPLPRFKNWYRCVTPH LANFVFLVEMGF/LPASASQAGITGVSH CTQLGVFICICYGSSHGVRQSWHQFCSS KLLVKSGRVGVGLLG
4909	12960	A	578	222	666	SLCFCLFVSLPACQETYGKSPFWILSIF EDIARNLMKRTVCAKSIFELWGHGQSP ELYSSLKNYFVEKMVPFLHSDSYKIKIH TFNKTLTQEEKIKRIDALEFLFEGKYNL KKQ'QHVSFVLEDYGLDPNCIPENPHNIF GRW
4910	12961	A	579	1664	1844	WQKLLFLGTESCSVARVGQVQWRIHLS PKPPPPGSSNS/PASASRVATGAHLHAR LIFVFL
4911	12962	A	5792	16	301	IFASTAPKRSWARLGGPQLVSVATKASF GAPTIPSRPGQSVFANSDLFPAPQIPSR PVRIPGIPGVPVRRPPAAPSRPTIRPAEP SLLD
4912	12963	C	5793	78	209	MSVFXXXXXXXXXXXXXXXXXXNEET NHPLGVVYRLSDSTQYI*
4913	12964	A	5794	119	231	

4914	12965	A	5795	69	909	EWCLLSPPGHTFHLIHWGITELTKRRGR KPSRPPMCYKGCARCIGHSLVGLAILCI AANILLYFPKGETKNASVENHLSRFVWF FSGIVGRL/VLLMLPAQHFLVHWGLEQD DC/CGCCGHENCGKRCAMLSSVIGWLS JGIVAGSGLLWSIV/VQPLGLARKDPLCLD S/LSGQWKLQPLPSTEGPVTFTWTSWSE CTEPKHIVKWNVSLFSILLA/LGGPELILC LIQVINGS/VLGGICGFCSSHQQQYGLAK RTNPGTEPQSFLYFHCNLSYLHLYSIC
4915	12966	A	5796	1	200	RGPVLLDTS/TWARCNEPFPVWENDTL FSN/LASGGIEFLCLIQVINGVLGGICGF CSSHQQQYDC
4916	12967	A	5797	2	424	RLSLTLVAQAAVQWHLNLSQPPPPGFK RFSCLSLPSSQDHRHTPPCPANSPFVLVE TRLJHAGQAGLKLPTSG/DTSSASQ SAR ITGVSHRARCWDSNSNTIFGLSANSNR NVFLVGGERIKGKHTFNTISMSEFEE
4917	12968	A	5798	46	626	
4918	12969	A	5799	1	1004	MWILLAGLAWAGLVVSDGLKDVLVMA KKSRRGKSA PKHIMSLGPLMMAFAICH FASVMGFHYLEVNLRLLQCFKYQIETA FAVLVQSVLRIYSSRIWDKTSLECLKVLT GHTGSVLCLQYDERVIVTGSDDSTVRVW DVNTGEVLNTLIHNEAVLHLRFSNGLM VTCSDRSIAVWDMASATDITRLRVLVG HRAAVNVVDFDDKYVVSASGDRTIKNR DKAEVAYTNLVWSTSTCEFVRTLNGHK RGIACLQYRDRLVVS GSSDNTRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGA Y/DMGSSLELLATWLFPNA*GSSETAEL
4919	12970	A	58	1107	1365	HSGSAGMHWNILFVHCMAQHI*FEDRL LHMM*CNRG GP*FALCTRCSQ*DSGAN WDK*KNILP LRNFVWLGFNDRDLSRGW VPEV
4920	12971	A	580	3	439	
4921	12972	A	5800	1	3084	
4922	12973	A	5801	3	265	
4923	12974	A	5802	242	401	DLYAATYSHSHT/ILVWSTSTCEFVRTLN GHKRGIACLQYRDRLVVS GSSDNIT
4924	12975	A	5803	2	385	FVFAAARGERGGEAGAVMEPDSVIEDKT IELMLPKCMFGLLKKAGYSKRKESWK MLDCLCFSD*SERENPHSFWIGGSEVQNI FQNTSVMEDQNEDES PKKNTLWQISNGT SSVIVSRKPPSEGNHY
4925	12976	A	5804	1	1248	
4926	12977	A	5805	2	1653	RGGAGAAMEPDSVIEDKTIELMCSVFR SLWGCANLVESMCALSCLQSPSPVRC LQISNGTSSVIVSRKPPSEGNVQKEKDL IKYFDQWSESDQVEFVEJILSRMCHYQH GHINSYLK PMLQRDETALPEQGLDHIAE NILSYLDARSLCAAELVCKEWRQVISEG MLWKLIJERMVRTDPLWKGLSERRGW DQYLEKNRPTDGPNSFYRSLYPKIQDIE TIESNWRKGRHNLQRIQCRSENSKGVYC LQYDDEKIISGLRDNISIKWDKTSLECLK VLTGHTGSVLCLQYDERVIVTGSDDSTV RVWDVNTGEVLNTLIHNEAVLHLRFS NGLMVTCSKDRSIAVWDMASATDITLR RVLVGHRAAVNVVDFDDKYVVSASGDR TIKVVWSTSTCEFVRTLNGHKRGIACLQY RDRLVVS GSSDNTRLWDIEGACLRVLE EGHEELVRCIRFDNKRIVSGAYDGKIKV WDLQAALDPRASTLCLRTLVEHSGR VFRLQDFEQIISSHDDTILWDFLNVPP SAQNETHSPSGUTYTIISR

4927	12978	A	5806	1	180	NKFRFHKTIAETASYWPK/DRHINQRN/ RESPVINPTTYGQLVDKGAKNTQWGKD NYFN
4928	12979	A	5807	1	355	
4929	12980	A	5808	81	474	LGERRRASLSLTPGRRRGFKVATQER NPQRAQMRRLRRQKKGVVPWGDPLTE LQ/MGLDSAIPGRFWMATPNKRKSKEVRV LQEMQLLQVAAAMYRLRPLEKFVITYFT RMEQLSDKESYKLSQCLEPENQ
4930	12981	A	5809	3	383	
4931	12982	A	581	1	691	MDQDSASTKTCPGTHRKSQGRSREQHG ALGAANAHDTVRDGERYDRWSGPRRRE QHGAALGAANAPDTVRDGERSLRRDWR DCAEATADVSGVRSLSRLSARRLALAL AKAWPTVLQTGTRGVHFTVDGNKRASA KVSISISIAQYPPVVDHEFADVVGAGGA GILRAAFGLSEAEFDACVTKLFPTRSH VAAQLENYGMFSPRTEGDKIYQRAFGG QSLKFGKGRQA
4932	12983	A	5810	1	148	
4933	12984	A	5811	3	1219	PGAMATLSFVFLLLGAVSWPPASASQGE FWPQGSAADILSGAASRRRLLYDVNPP EGFNLRDYYIRIASLLKTLKTEEWVLV LPPWGRLYHWQSPDIHQVRPWFSEFDDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGRWFWGYEETRGLNVSCLS VQGSASIVAPLLRNTSARSVMDRAEN LLHDHYGGKEYWDRRSMVFARHLREV GDEFRRHLNSTDDADRIPFQEDWMKMK KVKLGALGGPYLGVLHRRKDFIWGHR QDVP SLEGA VRKIRSLMKTHRLDKVFVA TDAVRKEYEELKLLPEMVRFEPTWHEEL ELYKDGVAIIDQWICAHASS*SAAGEPE TSCAGAGGTGRPLT
4934	12985	A	5812	75	130	IHRE*VPAAQGE LRGAEE
4935	12986	A	5813	1	1940	MATLSFVFLLLGAVSWPPASASQGEFWP GQSAADILSGAASRRRLYLDVNPPEGF NLRDYYIRIASLLKTLKTEEWVLVLP WGRLYHWQSPDIHQVRPWFSEFDFLPSL NKNIPVIEYEQFIAGA QSLSHAASVFPKC FSEMDLKWMSFVFPQLEPPLHPKKAATP GCYSDRTRLPVKRAVLRSGRRTACGVCF VVSQCSARDKELHLRDAFSRFVPAPEFH LRGAPSRFVPAPELHLRGAPSRFIPAAFE QILADLLGVTPPWSWGSGGSGGPFIDQ VYVLQSYAEGWKEGTWEEKVDERPCID QLLYSQDKHEYRYCLRLPLPQGWRS QSQVSIKGS DITRPPVEKLSVNSLHVS SARAAGSKAWQGSASIVAPLLRNTSAR FERWDYSLQRVSVGVDFRIDGVTFHSH PWFCRDPADVTRAAACKAGTCLQETQ SLLTWDFVQTRRSMVFARHLREVGEDEF RSRHLNSTDDADRIPFQEDWMKMKVKL GSA LGGPYLGVLHRRKDFIWGHRQDVP SLEGA VRKIRSLMKTHRLDKVFVATDA VRKEYEELKLLPEMVRFEPTWHEELY KDGVAIIDQWICAHARFIFGTSVSTFSF SDS*GKEKFLGLDPKTDVQQLRRPREG V

4936	12987	A	5814	3	1286	PGAMATLSFVFLLLGAVSWPPASASGOE FWPQQAADILSGAASRRRYLLYDVPNP EGFNLRDVRVIRIASLKTLLKTEEWVLV LPPWGRLYHWQSPDIHQVRVPSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYVYRGFWFGYEETRGLNVSCLS VQGSASIVAPLLLRNTSARSVMIDRAEN LLHDHYGGKEYWDTRRSMVFARHLREV GDEFRSRHLNSTDDADRIPOEDWMMKM KVKLGSALGGPYLVGHLRRKDFIWHGR QDVPSLEGAVRKIRSLMKTHRLDKVFFVA TDVVRKEYEELKKLLPEMVRFEPTWEEL ELYKDGVAIDQWICAHARCLPTLSLAE SGSGGQRFPCPKYSVSEQMVACVHSGH FHTVCLLV
4937	12988	C	5815	164	391	
4938	12989	C	5816	321	341	MAALAS*
4939	12990	A	5817	128	526	FFFFIKTASHSVVQAGVQWRSLSSMQP PPPGKQFSHLSLLGSWIKGHLPHSPNFC IFSRDGVSPCWLGSWSQTPGLRPQSPKC LGLTGCEATSPWPASLKFLKNCVFHLP YVYLLHVLGPRSKCYLQKW
4940	12991	A	5818	3	273	RRPRQRPTDQWFSILPDSL DLQEGPS VESQTHSDPHIPPVDP TTHLT FNHLSVC VSLTSLPHLGSPCLWSPALVSQEAASH QDRR
4941	12992	A	5819	1	861	MLDSSLALGGLVLLRDSVEWEGRSLLK ALVKSALCGEQVHILGCEVSEEEFREG FDSINNRLVYHDFFRDPLNWSKTEAF PGGPLGALRAMCKRTDPVPVTIALDLSL WLLRLPCTTLQCVLHAVSHQDSCPGDS SSVGKVSVLGLLHEELHGPVGVGALSSL AQTEVTLGGTMGQASAHILCRPRQR NYQTQWFSILPDPFGSPRGALCRVPA LIPHPKPKEREARDSLILPFQFSSEKQQA LLRPRPGQATSHIFYEPDAYDLDQEDP DDDLDI
4942	12993	A	582	306	458	TYIFLLNCFILMIHIFETESCSVAQAGWV QWHLGSLQALPPGFTTF
4943	12994	A	5820	2	494	LGLLHEELHGPVGVGALISLAQTEVTLG GTMGQASAHILCRPRQRPTDQQRVSI LPDFSLDLQEGPSVESQPYSDPHIPPVSK NAKARTKCSLVSGHGRENKSCRGWG WGQGF*GWGRVAASFVQVDP THTLT NLHLKSKEREARDSLILPFQFSSEK
4944	12995	A	5821	1	498	VRKVSVLGLLHEELHGPVGVGALSSLAQ TEATLGGYH/VGQASAHMLCRPRQR TDOTQWFSILPDSL DLKEGPSVESQPY DPHPRVDP TTHLT FNHLSKSKEREARD SLILPFQFSSEKQQA LLRPRQATSHIF YEPDAYDLDQEDPDDDLNLPQJ
4945	12996	A	5822	3	322	HERQMALLKANKDLIPDGMTELTPLLQP LGFEFVVCQDVVYTAGQDWVYTYDR DYQQQVTEGPEQRDKALQELRQELNTL ANPLAKYRDFLKSHELPSHPPSS
4946	12997	A	5823	3	276	
4947	12998	A	5824	151	204	SGEFFISCGRFWWLQDQ/DLMTLPRLVS NSWLKQSSHLGLLKHWDYMSSEAPHIAK NFLKAYEVVSLSFHVEGSGGRMA
4948	12999	A	5825	175	456	IHFVLISAHAVGCEGLWGGWSLRGVGV PHSSAKRS*VGIRPGKGRFGAQLPAGR ARASTEVSPGAPCPLLGAKNDRGLHAP KRTGTGPSNH

4949	13000	A	5826	188	269	IHFVLSIAHAVGCEGISPIEMGVSAISIQ EACSPGLQWATSFSLASAWVSAPLLQMA HICPIILLGSLKGARATNRFQSLFVQGV SFPARFPHLDLLLQ*P*KNDWTDVSHLE QRGTNPGRQE*SGPLQPWRAGFLDGGC
4950	13001	A	5827	1	542	
4951	13002	A	5828	2	889	RGLRIPTWAIQELAGRVTRRGPEGGR REPGGASPMRAAFPAAGGAGGSEVPPSA RPAPQFAGTAARSEEAPARAQAAGMAG PGWGPRLDGLFITERLGSQGTATVYKA YAKKDTREVVAIKCVAKKSLNKASVEN LLTEIELKGIRHPIHVQLKDFQWDSNJIY LIMEFCAGGDLRSFIHTRILPEKVARVF MQLASALQFLHERNISILDLKPNQILL SSLEKPHLKLADFGFQAQHMSPWDIEKH VLRGSPLYMAPEMVQCRQYDARVDL WSMGVILYGETSFFCFSP
4952	13003	A	5829	297	331	
4953	13004	A	583	47	358	SLLTPLVSPVPACPCPSKSEVSVQFHELP CRPLFRVWRNRQSRGCPQGVHYHGA WGLLPVWKSFCPAKTCCKWGLP/CPFC GRSCLHSGGAALCLLCGGA
4954	13005	A	5830	3	405	
4955	13006	A	5831	3	408	
4956	13007	A	5832	1	530	
4957	13008	A	5833	198	1175	RANPFMRGNHAGKRELNAEKASTNSET NRGESEKKRNLGELSRITSEDNEVFGEA DANQNNGTSSQDTAVTDSKRTADPKNA WQDAHPADPGSRPHLIRLFSRDAPGRED NTFKDRPSEDELQTIQEDSAATSESLDV MASQKRPQRHSGSKYLATASTMDHARH GFLPRHRDTGILDSIGRFFGGDRGAPKRG SGKVPWLKPGRSPLPSHARSQPLCNMY KDSHHPARTAHYGSPLPQKSHGRTQDEN PVVHFFKNIVTPRTPPPSQKGAEQORPG FGYGGRASDYKSAHKGFGVDAQGTLS KIFKLGGRDSRSGSPMARR
4958	13009	A	5834	1	651	MGNHAGKRELNAEKASTNSETNRGESE KKRNLGELSRITSEDNEVFGEADANQN NGTSSQDTAVTDSKRTADPKNAWQDAH PADPGSRPHLIRLFSRDAPGREDNTFKDR PSEDELQTIQEDSAATSESLDVMAQKR PSQRHSGSKYLATASTMDHARHGFLPRH RDTGILDSIGRFFGGDRGAPKRGSGKRLT PPGKNCSLRVPAPEVTRDPDR
4959	13010	A	5835	3	208	
4960	13011	A	5836	71	394	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSLEDDKKESESEDEL QLEEFPMMLKTLDPKDWKNQDHYAVLGL GHVRYKATQRQKAARKYLILK

4961	13012	A	5837	146	1910	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTASTLCQVEPVGWFEA FVKRRNRNASASFQELDKKELSEESQD EELQJFEFAMIKTLDPDRWKNQDHYAV LGLGHVRYKATQRQIKAAHKAMVLKH HPDKRKAAGEPIKEGDNDFYTCITKAYE MLSDPVKRRAFNSVDPTFDNSVPSKSEA KDNFFEVFTPVFERNRSWSNKKNVPLG DMNSSFEDVDIFYFWYNFDSWREFSYL DEEEKAEACRDERRWIEKQNGATRAQ RKKEEMNRIRTLVDNAYSCDPRIKKFKPE EEKAKKEAEKKAKAEAKRKEQAEKQ RQAELEAARLAKKEEEEEVRQALLAK KEKDIQKKAIKKERQKLRNSCKIEEINEQ IRKEKEAEARMRQASKNTEKSTGGGG NGSKNWSDDLQLLIKAVNLPARTNSR WEVIANYNMNIHSSGVKRTAKDVGIAK SLQKLDPHQKDDINKAFDKFKKEHGV VPQADNATPSERFEGPYTDFPWTTEEQ KLLEQALKTYPVNTPERWEKIAEAVPGR TKKDCMKRYKELVEMVAKKAAQEQV LNASRAKK
4962	13013	A	5838	1	1909	DVSRCAHRARPGAIMLLPSAADGRGTA ITHALTASTLCQVEPVGWFEAFVKRR NRNASASFQELDKKELSESEDEELQLE EFPMLKTLDPKDWNQDHYAVLGLGH VRYKATQRQIKAAHKAMVLKHHPDKR KAAAGEPIKEGDNDFYTCITKAYEMLSDP VKRRAFNSVDPTFDNSVPSKSEAKDNFF EVFTPVFERNRSWSNKKNVPLGDMNS SFEDVDIFYFWYNFDSWREFSYLDEEE KEKAEACRDERRWIEKQNRATRAQRKKE EMNRIRTLVDNAYSCDPRIKKFKKEEKA KKEAEKKAKAEAKRKEQAEKQQRQAE LEAARLAKKEEEEEVRQALLAKKEDI QKKAIKKERQKLRNSCKTWNHFSNEA ERVKMMEEEVEKLCRLLEASLQCLNET LTSCTEKVGKAALEKQIEEINEQRKEKE EAEARMRQASKNTEKSTGGGGNGSKN WSEDDLQLLIKAVNLPAGTNSRWEVIA NYMNIHSSGVKRTAKDVGIAKSLQKL DPHQKDDINKAFDKFKKEHGVVPQAD NATPSERFEGPYTDFPWTTEEQKLEQ ALKTYPVNTPERWEKIAEAVPGRITKDC MKRYKELVEMVAKKAAQEQVNLASR AKK
4963	13014	A	584	1248	1667	TNTGGWGRPHHAFVQHTLELLSLCLNC GFLVYFFFLSWTVMYGVSNNLNLKYG FQGIIVFYCYVKKLKKIWLCLPRPRVP WLPTSDPSLRSPSSMVLNQICRVYSATK RGSVTGSWAYPCVLSRGMMSELCKSRA
4964	13015	A	5840	3	231	SFFETESCVAHPGAQWCDISSLP PPPG SSDCPASASRVAGITGTHHAWPIFV VETGFHCLPQPPVILGLQA
4965	13016	A	5841	2	300	RRRLALSPAGVHWHGLGSLQPPPPWFER FSCGLLSGWDCRRAPPRPASFFVFLVET GFRHVKGKGLDFTL/GDPPALASQGA WIAGVSHRTRPQIHFF
4966	13017	A	5842	227	290	
4967	13018	A	5843	1	225	HCNFIPLVQAILGSSNSRASASRVAGTTG ALQHMQLIFCILVETGFRVQAQGLDLL SLTIHPPRPKVLGLQA
4968	13019	A	5844	3	147	LEIFFFFSFTFF/CRWGLTMFIRLVNFW PQMILLPLPLPKVLGLQA
4969	13020	B	5845	47	241	GGKDFNMPLTISRTPGSKAAQSQLSQS DLVVAIDGVNTDTMTHEAQNKIKSASY NLSLTLQK*

4970	13021	A	5846	3	408	CGGIPSQATIFTLSTLISSVTSLNSTSFSTK VHTLSQNLVYVREPLKLTFLTL*ASA IALSN*SRTRASWGVIC*DCMSSSRVPE DCFPK*YFCITDMPWLRRKNFFSTQSK CRF*GTPICQDKTSKK
4971	13022	A	5847	1	2209	AAADSTSMYSVTLTGPWPWGRFLQGG KDFNMPLTISRTPGSKAAQSQSQGDLV VAIDGVNTDITMHLAQNKIKSASYNLS LTLOKSKRPIMPSTAPPVQTLPIVPHQK DPALDTNGSLVAPSPSPEARASPTGPTP ELRPTTFSPAFSRPSAFSSLAESDPGPRA SLRAKTSPEGARDILGPKALPGSSQPRQ YNNPIGLYSAETLREMAQMYOMSLRGK ASGVGLPGGSLPIKDLAVDSASPVQAV IKSQNKPEDEADEWARSSNQLQSRFRIL AQMTGTETMQDPDEALRRSSTPIEHAP VCTSQATTPLLPASQPPAAASPSAASPP LATAAHTALASASTTAPASPADSPRPQ ASSVSPAFAASSAPATHTSYSGPAAPAP KFRVVTASIRPSVYQPVPASTYSPSPGA NYSPTPYTPSPAITYTPSPAITYTPSPVPT YTSPAPAYTPSPAITYTPSPAITYTPSPVPT AEPASRPPWVTTDDSFQKFAFGKSTTSIS KQTLPRGGPAYTAPGQVPLLRGTVQR AERFPASSRTPLOGHCNNVIRGPFVAM GRSWHPPEFTCAVCKTSLADVCFVEEQN NVYCERCYEQFFAPLCAKCNKIMGEV MHALRQTWHITTCFVCAACCKPFONSLF HMEDGIEPYCEKDYINLFTKCHCHJFP VEAGDKVIEALGHTWHDTCTFCVAVCHV NLNEGQFFYSKDRPLCKKHAHTNL
4972	13023	A	5848	1	537	RTRGGDVKTLNLNIEEFLEETLTPKYYI LAAKHREYNTEIDIFYKFSAYIKNTKQQ NNAALERGLTKALKKVVDDYNTPLPQE RDAYTCGEDKGTRRKFLADGDELITLAD CNLPLKLVVVKIVGKKYRNYHIPADMT GLWRYLKNAYARIDEFTNTCAADSEIEL AYADVAKRLRS
4973	13024	A	5849	1	654	WEGPTCSMCKVIGHNACEAPLHVSFH GQKTELNNCSIMLVAANDRVHTITQLE DSRRVTKENSHHVNRKLSQKFDTLAYIL DEKSELLLRISQEQEKKLIFIALIQYYQ EQLDKSTKLVEIAQSLDEPGGATFLLTA KQLIKSIVEASKGCQLGKTEQGFENMDF FTLDLEHIADALRAIDFGTDEEEEFIEE DQEEEEESTEGKEEGHQ
4974	13025	A	585	334	696	IKPEMEAGISVTLGLDRNTRVQVGCREL RSTKYISGWASCTSIQPSGRELVCVVG CLPLPVVWNWIGGGYGTKYWSRRSQ EWAVCMSMDKTRYPEDSQLQQDGGSTR YKITVSSLPAS
4975	13026	A	5850	141	626	LLWILIAAPPPPPVIRNGARGCSPSTIP NAWGQEPFRPRERPPPPSRDAAGATPS FLPPPLRNGHRDSIHCSGL/CLDDFESK YSFHPVEDFPAPEEYKHFSEDIYPSKTNR AARGAPPLPPLQVKPGLVFPFLIKRMDL LFFSYGPLHSSSELLHDS
4976	13027	B	5851	23	160	MQHVCMARQVDIDAYTICLYASGTPV PQLPLLLMALLGLCTLVL*

4977	13028	A	5852	221	1645	APRMRLLAWLIFLANWGGARAEPGKF WHIADLHLDPDYKYKSDPPQVCQSAGS QPRGTPQAPWGDYLCDSWPWALNNSIY AMKEIEPEPDFILWTGDDTPHVPDEKL EAAYLEIVERLTKLIREVPDTKVYAALG NHDFHPKNQFFAGSNNIYNQIAELWKP WLSNESIALFKKGAFYCEKLPGPSGAGRI VVLNTNLYYTNSALTADMAPGQOQFQ WLEDVLTADSKAGDMVYVGVHVPPIGF EKTQNAWFREGFNEKYLVKVRKHHRV IAGQFFGHIIHDSFRMLYDAGVSISA MFITPGVIPWRITLPGVVNGANNPAIRV FEYDRATLSLKDMMVTYFMNLSQANAQ IPRWELEYQLTEAHGVPHATAHSMHT VLGRIVGDKSTLQRYVYVNSVSYAG VCDEACSMQHVCMARQVDIDATTCL YASGTTAVPQLPLLLMALLGLCTTRAV TTCQAHHSW
4978	13029	A	5853	3	126	AYGDSMACVKCSDRIKHAFFIKEQKIV KVLKAQAGSQKAK
4979	13030	C	5854	306	386	MLFLKAIWGGSDSWSREAAACPLNCNL*
4980	13031	A	5855	709	1199	AGVGVRGTTGRLVVRKFLTLIFGNFLFL VAPPKPHSEWSQRLTYRRRPSPYNTAL* QK/RRHRSHNQIPPIRVYLLYPRRI.GKHP NISACGVCPRQEFEGVRAVRPKVLMRL SKTKKHVSRAVGGSNVCLNVFRDRIKR AFLNEEQKJVVVKVKAQAQSQKAK
4981	13032	A	5856	1	219	HRGYLLFNLFVEVISSEQSVLAPPVRRT CIVANLRGVGDPTDSRHCAQLGFKLLT LYSLLVGSESWGGARA
4982	13033	A	5857	112	312	LCTVCLWALKAGVGPEPERLIYSVPVVF *H/VACAGIADGGSFSSKVRCLIEIFFYTG ISIKMPLYIK
4983	13034	C	5858	133	237	MFMDXXXXXXGGRFKGLGGPKFTRAC KVKFFSL*
4984	13035	C	5859	61	177	MRIHKRLIDLHSPSEIVKQITSIEHPGVEV EVTIADA*
4985	13036	A	586	258	382	
4986	13037	C	5860	100	153	MSPPKSKGPPFRPGRF*
4987	13038	C	5861	142	195	MSPPQSKGPPKFPGRF*
4988	13039	A	5862	11	90	
4989	13040	A	5863	3	759	TPVLEVLLRKVGAAGGARGVIRLLDW FERPDGFLVLERPEPAQDLDFITERGA LDEPLARRFFAQVLA AVRCHSCGVVH RDIKDENLLAVLRSGELKLIDFGSGALL MDTVYTFDQTRVYVSPPEWIRYHRYHG RSDTVWSLGVLLYDMVCGDIPFEQDEEI LRGRLLFRFRVSPCEQQLRWCLSLRPSE RPSLDQIAAHPWMLGADGGAPEQ/CDCL RLCTLDPPDDVASTSSSETLRLSLHTGS
4990	13041	A	5864	1	422	
4991	13042	A	5865	2	435	ILAEGSLHLEFLHLTELSGNQVFAEKVR NIRKVLRKIEKPFGLYPNFLSPVSGNWV QHHSVVGGLGDSFYLYLKSWLMSGKT DMEAKNMYEAELET/HKLGPEAFWFNS GREAVATQLSESYILRPEVVEYSMYLW ROTHNTK
4992	13043	A	5866	1	837	
4993	13044	A	5867	1	415	TKLGPEAFWFNSGREAVATQLSESYIL RPEVVEYSMYLWRQTHNPYREWQWE VVLAEKYCRTEAGFSQIDQVYSTPNH DNKOQSSFLAETLKYL YLLFSEDDLLSL EDWVPNTEAHLPLVNHSDSSGRAGGRH

4994	13045	A	5868	1	1187	ESFHLNVSGEASLFEVNIRYIGLLSAFY LTGEEVFRKIAIRLGEKLLPAFNTPTGPK GVVSFKSGNWNWATAGSSILAFEGSLH LAEFLHLTELSGNQVFAEKVRNIRKVPQV SFEKPFGLYPNFLSPVSGNWNVQHHVSPG GLGDSFYEYLIKSWLMSAKTDLEAKNM YYG/APLEAIEITYLLNVSPGGLTYIAEWR GGILDHKMGHLACFSGGMIALGAEDAK EEKRAHYRELAVQTKTCYESYARSDTK LGPEAFWFNSGREAVATQSE/TTYILR PEVVESYMYLWRQTHNPVSYREWGWE VVLAEKYCRTEAGFSGDSKTCYSRHPQ PRTTSRQSFFLAETLNRCLVSAACNPDITG LEARDTAESETVISPAPVKGSRGEKAMVR ETD
4995	13046	A	5869	1	1561	MIFVVIILMVVLSPEGGSLDSSPFLSEA NAERIVQTLCTVRGAALKPYPTGPFNER YSHGVPHLFAYPFGSTVSQDNSFISQ LQHIFERVROSADFMPRWQMLRVLEEEL GRDWQAKVASLEEVPFAAASIGQVHOQ LLRDGTEVAVKIQYPGIAQSIQSDVQNL AVLKMSAALPAGFAEQSLQALQQLA WECDYRREAACAQNFRQLANDPFFRV PAVVKECTTRVLGMELAGGVPLDQCCQ GLSQDLRNQICFOLLTLCLRELFFFRMQ TDPNWANFLYDASSHOVTLDDFGASREF GTEFTDHYIEVVKAADGRDCVLQKS RDLKFLTGFEKAFSDAHVEAVMILGEP FATQGPYDFGSETARRIQDLPIVLRRH RLVSPFEGDLWPWHRKLAGAFLACAH LRDHIACRDHKGHLPLLGQSPARRSH CROPPHQRTGPGWPHDSLHGFSFQSR PYPAVVPLIPSPSALGQRSPLGLPSLAWL SSLAPKTOESLGLQNSP
4996	13047	A	587	1637	1832	VFSTRCGTHPPVCLAEFVKRLRYCEYL KYFCDCCHSYAESCPARILMMWDFKK YYVSNFSKTA
4997	13048	A	5870	1	1532	MPQALERADGSAWVWVLLATMVTQGL TLGFFTICGIFFTLQWEPQASNETSWFP SILTAVLHIMAGPLCSILVGRFCRVTVM LGGVLASLGMVASSFSHNLSQLYFTAGF ITGLGMCFSFQSSITVLGFYFVRRVLAN ALASMGVSLQITLWPLLSRYLLENLWGR GTFLVFGGIFLHCCICGAIRPVATSVAPE TKECPPPPETPALGCLAAACGRTIQRHLA FDILRHNTGYCYVILGVMWVSLGFLPLQ VFLVYAMWHSVDEQQAALLSIIGFSNI FLRPLAGLMAGRPAFASHRKLYLSALL LNLGTLNLVCAASGDFWVLVGYCLAYS SMSGIGALIFQVLMDIVPMDQFPRALGLF TVLDGLAFLISPLAGLLLDATNNF*DVF QQCPSFFP*SKAPLLKGGSFPPPPQKKBEQ GKQAVAAADALERDLFLEAKDGPGKQR SPEIMCQSSSRQPRPAGVKNHLWGCPAS SRTSHEWLFWPKAVLQAKQALGWNST
4998	13049	A	5871	946	1279	QTELGVRFPPFTLPLLGARSQSGRVLV VDFRVQPGFRKENLIQGDLFMMNRQSS RQRPAGVGNKHLWGMSCP/ASRDPAMK WLLWPKAVLQAKQALGWNSTPYLECP V
4999	13050	A	5872	3	297	ESCSVTQAGVHW/CNLGSLQSP/PDSSD SPSSVSRVAGITGMCHHAQLFVVFVETG FHHGEAGLCLRLPKCWDRYCEPPRLHL GLQLNFITYKDRCIA

5000	13051	A	5873	276	880	KADSEQHGEAKRRYSSSLAKKEVSKAPE DKKKRLLEDDKRRKEDKERKKKDEEKVK AEESKSKKEEEEKKKHQEERKKQEEQA KRQOEKVEAAAHMKEKEESIQLHQEAWE RIHLKKELCSKNQNPAGSRPKENFFSRL DSSLKNTAFVKKLKTIPQQRKDSLSHD FNLGLNLSKYIAEAVASIVEAKLKISDVNC AVHLCS
5001	13052	A	5874	2	619	LDLDFNLAILVTSLAPFFQDCMSENALH ELNIELLRNKLKYSYLEAFYKFCNKHGD VTAEVMPPILEFEADRRRAFITLNSFGTEL GOEDRETLVPLGQLLSEGFAILAQAE DFDQMKNVADHYGVYKPLFEAVGGIGG KTLEDVFYEREVQMNVLAFNRQFHYGV FYAYVVKKEQEIRNIVWIAECISQRHRIK JNSYIPIL
5002	13053	A	5875	1842	2306	GPRLLAFLTSAGDGVYTRFVVFHDCTC ATFHREDAYRLPFIPTNHHTASPE*VPP HPIHLGALQPGDPSIHDSIGTPNSNADA PKAGGCKWTQTRSVVPNSALGRKGSTH LPRITFTTLAPETKL SNCPKPAPIGLEH TSLAWALGTAD
5003	13054	A	5876	301	471	
5004	13055	A	5877	269	394	
5005	13056	A	5878	524	604	
5006	13057	A	5879	187	401	VSCPGSNSPLGSSSASGASSLNFLPSVPV R*SVSGLNLRVPMARAVTISGDVTKA WVSGFASLRPVKFL
5007	13058	A	588	1	856	MKRSMTLTIFHSERIILNRQPPKESWE DIEDFGETHLDFLKQYGDENGIPVHDTI ARVVSICSPAKFHECFINWMRDCHSSND KDVIADGKTLRHSYDKSRRRGAIHVISA FSTMHSLVIGQIKTDKKSNEITAPELLN MLDIKGIITDAMVNCIVKVTGVFAING DQRVAEPDSGALCQVRYPGNHRNDQRY LFRHSDSELLHWMVALDAAVKRVKCL WMSLHKVYSCIELPELPOESA GHSQS YA*CNRTRPHGQKPGTSAPSSGVWRIT SV
5008	13059	A	5880	667	888	AHTVHIRRSASRLPAGPASRLVDLSH*DL GHVP/AGFFLMNVQOGLADLSTSAHL LGAPLVKGSRPFAWADAW
5009	13060	A	5881	1	163	GLVDESFDVTSPTGPFSSADATTSVRAAK KRAPYTLVGSISEPGLJLSWWTSN
5010	13061	A	5882	183	426	
5011	13062	A	5883	1	1152	MHNSDGIEVMRQQAIEIRGVGGLEGLOL GVTEVIVNGARMLESYNCKAELGATGL VNYQISVKCSNQKLEVYLLNAENKV DNQAGTQGGQLKVLGTNLWWPYLMHEH PAYLYSWEGRPDGAQAVGALTPTGLAV EVWLT AQSLGP/SDFYTLPVGLRTVAV TESQFLISGKPFYFHGVNKHEDADIQK GFNWPLL VKDFNLLCWLGA NTCTSHY PYTEMLQICRYGIVVIDECPAPS GHT GPSVPSLLARWQLFN NVSMHHMWWV EEPVL RDKNHPAMVMWSLAKEPASFLE SAGYSFKSLTMEQTARVLDLDTGEAVLQ YRSLPRGAHKT LGKKRKISSYNVDLTSC QLAKECKLKGPSFLQSRQERMNSEL RD N
5012	13063	A	5884	401	882	CTNTPPTWTRGRMVAHTKALDPQSPVT FVTNVTYAADKGALYVDVTPLNYSYSG YRNYGHLVELLQLQLAAQFENWCKTSQ SHYSERVWSGNAL*GFHQDPPLMFQ*RG PGKVLLQYHLGLDQKRRKYVVGELIW NFADFMTNQCVSFLVGNENSANL

5013	13064	A	5885	197	1184	ETSHQVMDRSNPVKPALDYFLNRLVNY QISVKCSNQFKLEVCLLNAENKVVVDNQ GTQQLKVLGIANLWVWPYLMHEHPASL YSWEGRPDGAQA VGLATPGALAVEVR LTAQKSLGP/SDFYTLFVGLRTPVPTSEQ WALYVDVIRVNSYYSWYRNYGHLELIQ LQLPAQFENWCKTSQSHYSERVWSGNA YRVSPGGGNLPHALPCCSQNLALPTFSP GTVVISLALS.LIGI.WAQETGVLFTVVSQD PPLMFSEEYQKSLLEQYHLGLDQKRRKY VVGELIWNFAFMTNQCKWQFSAWDN VPVLIFSGCLASHSGHFCKNGKNGKGGKL V
5014	13065	A	5886	I	657	
5015	13066	A	5887	76	614	VCOQYCTARIMADFGISAGQFVA VVWDKS SPVEALKGLVDKQLALTQNEGRVSVENI KQLQLQCLVPGSTTLHSAEILAEIARILR PGGCLFLKEPVETA VDNNSKVKTASKLA CSALTSLGLVEVKELQREPLTPEEVQSV REHLGHESDNLFLVQITGKKPNEFVGSS MQLKLSITKKS
5016	13067	A	5888	102	1292	ACQYCTARIVDFEISAGQFVA*VWDKSS PVEALKGLVDKQLQAF/TPGNEGRVSVEN JKQLLQSAHKESSPDHLSGLVPGKAPL WHS A*DFWAGNPPGFLRPGWMPFFLKE PVETA VR*Q*AKWKTAASKLCSALTSLGL V/EKLKELQREPLTPEEVQSVREHLGHES DNLFLVQITGKKPNEFVGSSRQLKLSITK KSSPSVKPAVDPA AAKLWTL SANDMED DSMCIFCGCSLTHRWPLEHVRLNMMI NQKEDRVDITFFTLDSKFPLEACSHFSFSL AETTTVSLIALNTLQDLIDSDELDPEDL KKPDPASLRAASCCEGKKRCKACKNCTC GLAELEKEKSRQMSQPKSACGNCYL GD AFR CASCPLYGMPAFKPGKLYLSD SNLHDA
5017	13068	A	5889	1	747	MGRFYVAQAGLELLSSDFSISKTLQEQ NDQSYSTLVPVFEVALHTLLWGEDANN SKVKELQREPLTPEEIQSVREHLGHESDN LLFVQITGKKPNEFVGSSRQLKLSITKKS SPSVKPAVDPA AAKLWTL SANDMEDDS MDLIDSDELDPEDLKKPDPASLRAVAS CEGKKRCKACKNCTCGLAELEKEKSR EQMSQPKSACGNCYRGAMPSCGASC YLGMPAFKPGKLYLSDSNLHDA
5018	13069	A	589	148	333	
5019	13070	A	5890	2	152	YRHMAPHPTNFKK/FFCRDGGVLMLFR LVFNSWPQGLLPQPPKVLGLQV
5020	13071	A	5891	1	581	EKQCSKSCGETFNSITKRHHICKLCAV CGKCSSEFAENSRQSVCRDCF LTQVPA PESTEK IPTADPQPSLLCGPLRLSKGET WSEVWAAIPMSYQVVLHLQGGSDGRL PRTIPLPSCKLSVPDPEERLDSGHVWKLQ WAKQSWYLSASSAELQQQWLETI STAA HGDTAQDSPGALQLQVPMGAAP
5021	13072	A	5894	1	303	PCGARQCGGPPPLR/CSSRRTSQELLK PVPPPAPGGPASRVGRGSVSGALSPAWN GERQHHRGVVLTHPQSPNHQAGSPNP TRQALATLSVTPNKPFIE
5022	13073	A	5895	1	284	ATESCSAQVQVQWCDLSSQLAPPFGFT PFSSLSQGSWDYRSPPHANFFVVLVE /MASASQAGITGVSHRTRPRAIFNLTEN TNGSVDED
5023	13074	A	5896	3	338	GHWGWSYGGVLSLMMQSRSDIFRVAIA GAPVTLWIFYDTGYTERYMGHPDQNEQ GYVYLSVAMQAEKPPS/EIYPQERHSIRV PESGEHYELHLLHYLQENLGSRIAALKVI
5024	13075	A	5897	1	1200	

5025	13076	A	5898	2	594	NRGSCHRGLKFEGAFKYKMGQIEIDQV EGLQYLASRYDFIDLDRVGIHWSYGG YLSLMALMQRSDIFRVAIAGAPVTLWIF YDTGYTERYMGHPDQNEQQYYLGSVA MQAEKFPSEPNRLLLHGFLDENVHFAH TSILLFLVRAGKYDLDQIYPOERHSIRV PESGEHYELHLLHYLQENLSRIAALKV I
5026	13077	A	5899	74	248	KTLWMVNRTVLGAGICSQQLSAGTAT/DV SKHRLQGFPICRIPS/ASPTQQRKFSLQFH RNC
5027	13078	A	59	582	1303	GACSRAGLWLLGGQLLGPRIYQLSEDCV SWSCVHQPLSPQSLIWAARTELSPPDTQS GEDRKTSFVGHQPTALGGLQGSIESLMS SEAETEERRCTVMQLSETNRTLFLFGVT KYTAGPYECEIWNWSGASRSDPVTLNLL HGLDALTISSSYTYHTGVEPKLSCLIDT HPLAEHSLWLGKGFQQAQVFFIPQIKT YRGVYVCFIHNSATGGTNLIKRIIVFDHS LRSALSLEVTGS
5028	13079	A	590	311	576	
5029	13080	A	5900	258	552	CMVFHD/VSGACCCNGETTGKISGGGNQ LGSSPIGGPNPS/SGSSQTSISGDVVEACC SVLSMVCADPVYKYVYAALLLERELPG VFSGKIFNLLSDCLLW
5030	13081	A	5901	1	1660	
5031	13082	A	5902	1	1947	MAIRRLSHDVS GALLANGESTGNSGG SSGSSPSGGATSGSSQTSISGDVVEACCS VLSMVCADPVYKYVYAALQCMLLVTL EDPSSHIFTRMRRMLM/AYADEVEIAEAIQ LGVEDTLDGQDSDFCRHLFPITWKPQR TVP/LECTIHLEKTKGLCATKLSASSEDI SERLASISVGPSSSTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQMLFPALSTP SSSTPSVPAAGTADVSKHRLQGFPICRIPS ASPTQQRKFSLQFHRNCPENKDSKLSLSP VFTQSRPLPSSNIHRPKPSRPTPGNTSKQ GDPKSNMSTLNDNSSSKCDDSFSGCSSNS S/NCCYTSDETVFTPVEEKCRLDVNTEL NSSIEDLLEASMPSSDITVTFKSEVAVLS PEKAENDDTYKDDVNHQKCKEKEMEA EEEEALAIAMAMASQDALPIVPQLQVE NGEDIIHQDMMTFFRHIPPIQWIYKESA NLLIDSTGQRLRIADFGAAARLASKGTG AGEFGQQLLGTIAFMAPEVLRGQQYGRS CDVWVSGCAIHEMACAKPPWNAEKHSN HLALIFKLLDFANTACDGDKESEVEDV ETDSGNSPEDLRKEIMIGLYQAEIPPLY GEYDGNKCDSPQPKMTGVQNAKEVLS T
5032	13083	A	5903	1	4491	PSPEAGGGGALKASSARAAAAGLIRE AGSGGRERADWRRRLQRKVRSVELDQL PEQPLFLAASPPASSTSPSEPADAAAGSG TGFPQVAVPPHGAASRRGAHLTESVAA PDGASSPAAAEPEGKRAPAAEPSPAAA PAGREMENKETLGLHKMDDRPEERM REKLKATCMPAWKHEWLERNRGPV VVKPIPVKGDGSEMNLHAAESPGVQAS AASPASKGRSPSPGNSPSGRITVKSESP VRRKRV
5033	13084	A	5904	1940	2062	
5034	13085	A	5905	785	892	
5035	13086	A	5906	1	2745	
5036	13087	A	5907	1	3297	
5037	13088	A	5908	1	2202	
5038	13089	A	5909	1	2868	

5039	13090	A	591	279	602	FFLSEILSVSLTFFIISNYYSQVINS LAVY RHRETDFGVGRDHPGQFWQNPISHEK LDNLIIIIJGLRRTYFNILFCTSLCVSILT FCRGILVITNKKNKLYKTK
5040	13091	A	5910	1	3237	
5041	13092	A	5911	1	2001	
5042	13093	A	5912	1	2982	
5043	13094	A	5913	1169	3269	VHCRFWILALCQMSRLQKSPLLFNIVLE VLAKAIKQEKEIKGQLGKEEVKLSLFAD DMIVYLENPTVSAQNLKLMNSFSKVS YKINVQKSQAFLYTNNRQTESQIMSGLP FITTSKRITYLGIQLTRDVKDLFKENYK LLKEKEDTNKWQCNIPCSWVGGRINLVK MAILPKVIYRFNAIKLPMFTFTELEKIT LKFIWNQKRALLIAKSSLSQKNKTGGITLP DFKLYYKATVTKTSWYWYQNRDIDQW NRTEPSEIMPHIYNILFDKPKDNKQWG KDSLFNKWCWENWLAICRKLKLDPFLT PYTKINSRWIKDLHVRPKTIKLEENLGN TIQDIGMGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQPTWEKI FATYSSDKGLISRIYNELKQYKKKTNPI KKWAKDMNRHFSEEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPVRMVIJCK SGNNRCWRGCGEIGTLLHCWWDCKL VQPLWKSVMWQFLRDLLEIPFDPAPILGI YPEDYKPCCYKDTCTRMFIALFTIAKT WNQPKCPTMIDGIKCMWHIYTMYYAA IKKDEFMSFAGTWKMLETILRKLSQGO KTKHRMYSLIGGNLTMRFTFGHSAGSHH TPGPIMRCGAGGGIALGEIPNVNDELMG TANQHGTCPMQQNCCTLCTCLKLKV
5044	13095	A	5914	2821	5794	
5045	13096	A	5915	457	651	
5046	13097	A	5916	3	637	KGDHVKHYKIRKLDNGGYITTRAQFET LQQLVOHYSERAAAGLCCRLVVPCHKGM PRLTDLVSVKTDVWEIPRESIQLIKRGN GQFGVEVWNGTWNGNTKVAIKTLKPGT MSPESFLEAQIMKKLKHDKLVQLYAV VSEEPVIVTEYMNKGSLLDFLKDQEGR ALKLPNLVDMAAQVAAGMAYIERMNYI HRDLRSANILVGNGLICK

5047	13098	A	5917	1	2523	MHWKRPWQVGGYLTAAATDVQMLNY MSVRQLSYLNPNTWQFLSWSQMPTQQ AYPCVTHHTTPVLGQMACCISNQRRTA ALIGTRPERNVHVNLRQGFVVAHEP WVNEKVARQEPEDAGRGAVNRAWGFS PRLIHWSEGPAAALGDRDPRLPYHH AAALSGSHAAALSLAPSRSSALAVLIALL PAAQLHHHVPRSKACDIAYVGGHRRQV WYGOEDGQQILVVPVLLSTTQQKVSAL WADRLEVRALLARSLAARLAPFSVHPCW VVVTFPSAVAWINAGSLDLFLKDGEGR LKLPLNVDMAAQVAAGMAYIERMNYIH RDLRSANILMGNGLICKIADFLARLIED NEYTARQDPTRSRRGHRSSAMNPYGSRA GRGRVESGLTLQMAATQVTVQWSAHLV SGEAVAWNTFPTANQDRKELAAALSCSCP STLCFMLLGLYPTLDHLQVRQSHCLTVS CAWQGLKPLFLWLAINKAFFICLTLYKY WQADCELLASAYQHAWHITCARTQSSNL SIADIESLELVVKTFFHQKKIFLTSYSG MFVGTWNGNITVAIKTLKPGTMSPEFSL EEAQIMKKLKHDKLVQLYAVVSEPIYI VTEYMNGKGDEGTIREIEGOVKAPRRDN IPKPSAAHAAQVMWHEVRLTRALCPF WGWLDWSWHFPCVELHPTIPLITQKPKG KELTDVVHRSQFSGAQSRVESIWIQRSM TKTPGAKLQKQAYQGVSNPIHHIHTGO QLKAVPHPLMEAPDAIDGYRKILVNFTKI YSAFVNTSDYEWQPTLVAGVYRCGDP QGTERRTQKPPTEVVTTLQPPQWLLRG HVGVLVLDHPHFEKPEP
5048	13099	A	5918	74	1002	SNESNAVALSTVERTARRDAPOHGTQPR GLPSRESEPHAQRTAATGKARQRRKTTA SAGAREGRRRLAGTTSIPGPSAVPVHR HRPQEPROGPRTPRRAEEKRDQOMASHV ECRPLGVFECELCTLTAPYSYVQKPPN TQSMVLLSEESYVMKDPFTSDKDRFLVLG SCCSLCSRLVCVGPVGRMEVEQHGFSV PSVLRVTPSEKSLISCHRLTHTKGSCINS QGDDEMGQGRSLRSVAWEYLRLMEELV YQEKLGKEDCKGNSARLGEKSEIKEDP QPARFSDGPGLSECCSDVTERDDLQQG SS
5049	13100	A	5919	3	401	RSRQTRAAMASHVECRPLGVFECELCTL TAPYSYVQKPPNTQSMVLLSEESYVMK DPFTSDKDRFLVLGSCCSLCSRLVCVGP VQCSLFYSKRFLCLPCVRENINAFQEIQ DLEKRAKPSKRTPSQPGSRT
5050	13101	A	592	66	1474	TAPPSPSPSSLLSPCNGVHHVSTQSPC GRGKMSKLLNPEEMTSRDYYPDSYAHF GIHEEMLKDEVRTLTYRNSMYHNKHVP KDKVVLGVSGGTGILSMFAAKAGAKK VFGIECSSISDYSEKIIKANHLDNITIFKG KVEEVELPVEKVDHISEWWMGYCLFYES MLNTVIFARDKWLPGLMLFPDRAALY VVAIEDRQYKDFKJHWWENVYGFDMTC IRDVAMKEPLVDIVDPKQVVTNACLJKV WTLIRGGPGCAGSPAVPPWSPGNAGSCT APTWARAKVVRRLRYEPVRLEGHATLV TEGTKKERYQGWKEPGAWLIGPEKVM EKSVLTPNVILDASYCWELAYQKIGEGV WFWFITGPGDKTQIAVLVQVEEDVIYTV KTEELSFTSAFCLQQRNDYVHALVTYF NIEFTKCHKMGFSTAMEEPCIPFVLSK EKVNNVVVTAQVESVLEDEGAG

5051	13102	A	5920	96	615	NIILRNSIHSRKIKYTTLSTHISIFLPQISP QMSLIGFFYESEANKGSHFPFGYVSCNLN AETT/SLFYICYFLKSPDQGNQAQTMAY NITPLRRAVECVQDQFGFINYEVGDSK K/LFFHMKEV/SRDGQCSAWNVP/SLLR GPKA/VAAPRPDLR/VSRLKNITLDADAS DPR
5052	13103	A	5921	1497	2853	EMVLVSSSVVIMVFCVSTSVKFWMG SSHIADEVFTVVPDMLSAQRNHAIRKK LPKGTVSFHSISHDRFLGTVEKEATFSNP KITSPNKGKEAEADGIIAYDDCGVKLTI AFQAKDVEGSTSPQIDKVEFISDKQRP GQQVATCVRLGRNSNSKRLLYVATL KDNFGFIETANHDKIEIFFHYSEFGDVDS LELGDMEVYSLSKGKGNKVS/AEKVNKT HSVNGITEADPTIYSGKVIPLRSVDPT QTEYQGMIEIVEEGDMKGEVYPFGIVGM ANKGDCLOKQGESVKFQCLVCGQNAQTM AYNITPLRRATVECVKQDGFNINYEVG DSKLAFFHVKKVQDGMELQA/GDEVEF SVILNPAATGKVQAPCNVVR/VCEGPP RL/QAPRPDRVGSIRLKNITLDDASAPR LMVLRQPKGDQITSMGFGAERKNRQA GVID
5053	13104	A	5922	23	206	
5054	13105	A	5923	1	267	ALFRDKLKHMKSTRRLKLFELARAFSEK TKMRKSKRHLKHKQSRGAAASTANL LDDVEGHACDENFRGQASRRAPQGGG RPCRREGQ
5055	13106	A	5924	1	267	FFFFLLDILL/CLFLRWSFTVTQAGVQ WSDLGSLQPPPRPKQFSCLSLSSWDH KCLAPRPANFCFSKDGVSFCWPGWSQT PHLR
5056	13107	A	5925	1	325	MGTSSGSWPRWSVTAMPTTSMRPCSR SSCWPCIPRLPASTAP*SMRPHSGPRMT TRSC/LK/TSYADGYSPLNVAQRYVVA/ W*GTQEKVMPGRLAIPQRHAGQQR
5057	13108	A	5926	366	489	QETTWPDELT/KWLPG*RPWGMGSSGF ARWSVTAMPTTSE
5058	13109	A	5927	228	754	
5059	13110	A	5928	1	2709	
5060	13111	B	5929	76	925	XQCFILSADSRIAELLTELHOLSKQTQEE RSRSEHNLVNIQKHTHERMQTENKISPPY RTKLRLGLYTTAKADAEEACNLRLKALD MIAEIKSLLEERSAAKIALGLYNDSEPPR KTMRRGVMLTLLQOSAMTLP.WIGKPG DKPSQPSSPLAASKALQVLLGFLLYN LPCLSHRHHQFLSRLRLPLYSGDCISQE CLNLVFLADVWFGFLPSIYLVFLIILYEG LLGGAAAYNTFHNIALETSDEHREFAMA ATCISDTLGISLGLLALPHDLFCOLS*
5061	13112	A	593	379	475	DLQGVNHLRP/GVQDQPGQHGETLSLLK IQNN/LARRGGGRL/QSQLRLR/QDNR NPGGGGCSEPRSRHCTPAWVTEQDPISK QNKRRQANFLIWEDFPYIPQGT/LIFTAQ KLPRCK
5062	13113	A	5930	3	1066	GSWGYOPTGLYAPTR/RLGNVILDWVQA HFPITDFALEFDGTNLJEHSDPREGYH QDWNLTLYNYGRREVSNFVGNALYWI ERFGIDALRVDAVASMIYRDYSRKEGE WIPNEFGGRENLEAIEFLRNTNRLGEQV SGAVTMAEESTDFPGVSRPQDMGLGF WYKWNLGMWHDITLDYMKLDPVYRQY HHDKLT/GILYNYTENFVLP/SHDEVVH GKKSLDRMPGDAWQK/FANLRAYYGW MWAFPGKKL/FMAAKIALGLYNDSEPPR KTMRRGVMLTLLQOSAMTLP.WIGKPG DKPPPLCGAIPASGDYVVRPGRDRLARL

						KPLNGERAVDSLPEGGQVTAIATQQGM R
5063	13114	A	5931	53	506	FFVFLVEMGFHHVQGAGLELINSDDLPS SASQAGIYRCEPLCPAFFFFSETESRSV AAQAVVQWCDLSSLQPPPHKRRFCLSL LSSWDYRHVPPCLANFCIFVEAGFHHV GQAGHKLLISSDPPASVSQAGITGMSHC IQPHSPVFS
5064	13115	A	5932	1	346	SANATTKTSETNHTSRRLKNVDRSTAQ QLAVTVGNVTVIITDFKEKTRSSST VTSAGSEQQNQSSSGVQRAPDKGLPP RSLPTPKGDMSAVNDEIFPEIATWNC L
5065	13116	A	5933	1	915	MGKEKTHINIVVNGHDSOKSTSTGHLY KCGGINKRSIKKFEKAAEMGKGSFKSP VCDSSWYIPGHDFITNIFTGTSQADCAV LVVAAAGVGEFEAALLQDVYKIGIGITV PDQOVETVALKPOGVVITFAPVNTTEVK SVKMHHEALSEAFSGDNVGFHVKNVSV KDIHCNSNAGNCKNDPMEAAAGTAQVI NLNHPGQDCHMAHACKFAELKEKIDR SSGKKLEDPKFLKSGDVAIIDMVPKPK MCVESFSDYPLQCFACCDMRQTVALG VKAADKKAAGAGVKYTKYQKAQAK
5066	13117	A	5934	1	759	
5067	13118	A	5935	30	706	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYA WVLDKLKAERERGITIDISLW KFETSKYVVTIIDAPGHRDFIKNMITGTS QADCAVLVAAAGVGEFEAIFKNGQITR EHALLAYTLGGKQLVGVNKMMDSTEPPY SQKKYEEIVNEVSTYIKKIGYNPDTRAFV PUSGLNGDHMLEPRANMPWFKGWKSH
5068	13119	A	5936	1	706	QSEQPCALPSRESTKLGGITVSSAPMET VGSNPGMVVTFAPSP*QRKV/SKAMH HEAL/SEALSGEQLGASN/VKQVFCQGM FRPWQTAVAG*PAKNDPTQWEASWLSLL QVILNHPRPK*GAGPMPLYLDCHTA/HI ACKFAELKEKIDRR/SGKKLEDPKFLK SGDAAIVDMVPGKPMCVESFSDYPLG RFAVRDMRQTVAVGVKAVDKKAAGA GKVTSAQKAQAK
5069	13120	A	5937	364	458	VIEHLVSQDGLDFL/NLVICPRPKVLGL QA
5070	13121	A	5938	1	266	EMESRSIA/RMECSGSISAHCKLRI/PGSH HSPASVSRVAGITGTCHHARLIFYL/L ETGFHCVSHDGLHLL/NLVICPRPKVL GLQA
5071	13122	A	5939	1	201	PPTGP/PKLPDPVHLPPFGPPSAWALPG MSPSPDPDRNKLRIIRILKNASLSYLQVE VFFYPKMP
5072	13123	A	594	2	307	QAGV**WDLGSLQPLPRLKQFS/CILNP GNLSKEF*STKETQNI/VGHQSQTSKF AISLIQHINMRSGTKTFM/V*GNKQRS KFPWIWTKIFFDMLPS
5073	13124	A	5940	2	142	ESIQDYKHLCDQLSFCQLPPDPPLTVPQ THNARDQWLQDAFHISL

5074	13125	A	5941	1	432	IHDELSRAARAUPDGPRAAGAANAGFA AGPRRPVNLDSALAAIKEMLSA/VGLR QLDMSLLCQLWGLYESIQYKHLQDQL SFCQDLSSSLHSDSYPPDAGLSDEEFP DASLPDPPTLTPVQTHNARDQWLQDAF HISL
5075	13126	A	5942	3	696	VSMGALGLEGRGRLQGRGSLLA VAG ATSLVTLLAVPTVLAVLALVPDQGG/L LGFOKLPEEPEETDLSPGLPAAHILGAPL KGGGLGWETKEQAFLTSQTQFSDAEG ALPDGLYYLYCLVGYRGRAPPGGGDP QGRSVTLRSSLYRAGGAYGPGTPELLE GAETVTPVLPFARRQGTGGLWYTSVGF GGLVQLRRGERVYVNISHPDMVDFARG KTFPGAVMVG
5076	13127	A	5943	1	743	MGALGLEGRGRLQGRGSLLA VAGAT LSLVTLLAVPTVLAVLALVPDQGG/LV TETADPGAQQAQGLGFOKLPEEPEETDLI PGLPTAHLIGAPLKGHGLGWETKEQA FLTSQTQVSDAEGALALPDGLYYLYCLV GTTGWAPPGGDPQGRSVTLRSSLYRAG GAYGPGTPELLEGAETATPVLDPARR QGFWPLWYTSVGGGLVQLRRGERVYV VNISHPDMVDFARGKTFPGAVMVG
5077	13128	A	5944	1	588	MGLFLHVQAGLKLTLTSGHYQKRMFSE NEENVKRMKTSQEQINENICVSLERQTAFL EQVPESFEHLPLPEPPAPLPELVDKTRD TLPPQKPELKVKRVFRPNGLALTWNITKI NPKCAPEEKVYPLFLCHENSNNKLIWKKI GEIKALPLPMACTLSQFLASNNRYFTVQ SKDIFGRYPGFCDKISIPGSENLT
5078	13129	A	5945	3	495	EDTGTFRYIESAGAVKKARGLEFVEDF IQVSKNLIGKVIKNGKVIQEIVDKSDMV PVRIEGDSENKLPREDKDDRRSRHQDSD RRCPGGRCSRVSQGRGRGGPRGKSSIS SVPKDPDSNPFYSVLND/TESDQTADTAS KSHHSTNRHTRSRRRRRTDEDAVL
5079	13130	A	5946	1	2065	MAELTVEVRGSGNAFYKGFIDVHEDSL TVVFENNWQPERQVPFNEVRLPPPPDIK KEISEGDEVESYRANDQEPGW/LAK VRMMKGEFYVIEYAACDATYNEIVTFER LRPVNQNKTVKKNITFFKCTVDVPEDLRE ACANENAHKDFKKA VGCACRIFYHPETT QLMILSASEATVKRVNLSDMHLRSIRTK LMLMSRNEEATKHLECTKQLAAAFHEE FVVREDLMGLAIGTHGNSNIQARKVPGV TAIELDEDTGTFRYIESADAVKKARGFL EFVEDFIQVPRNLVGKVIKNGKVIQEI DKSGVVRVRIEGDENKLPREDGMVPPF VFGVTGESIGNVQVLLYHIAYLKEVEQ LRMERLQIDEQLRQIGMGFRPSTRGPEK EKGYATDESTVSSVQGSRSYSGRGRGR GPNYTSGYGTNSELNPNSETESERKDELS DWSLAGEDDRSRHQDRSRKRPGGGRGR SVSGGRGRGGPRGGKSSISSVQYRSNIH NCSTLKRIFLASDMNIVLKDPSNPFYSL DNTESTDQTADTASESHHSTNRRRRSRR RRTDEDAVLMDGMTESDTASVNEGLD DSEKKPQRNRNRRRRRFRQAEVDRQPAI DFIYKEVEKVSLWQAKDVIEHGPSEK AINGPTSASGDDISKLRTPGEEKINTLK EENTQEAVALNGVS

5080	13131	A	5947	1	1876	MADVTVEVRGNSGAFYKGFIKDVHEDS LITVVFENNWPQERQVPFNEVRLPPDPDI KKEISEGDEVEVYSRANDQEPGCVWLA KVRMMKGFEFYVIEYAACDATYNEIVTPE RLRPVNQKTKVKNITFFKCTVDVPEDL REACANENAHKDFKAVGACRIFYHPE TTQLMILSASEATVKRVNLSMDHLRSIR TKLMLMSRNEEATKHELECTKQLAAAFH EEFVYREDLMGLAIGHGNSIQQARKVP GVTAELEDEDGTITRIYGESADAVKKAR GFEFVEDHFQVPRNLVKGVIKNGKVIQ EIVDKSGVVRVRIEGDNENKLRPREDGMV PFVFGTIESIGNVOVLLEYHLKVEVE QLRMERIQDEQLRQIGRSYSYGRGRGR RGPNYTSYGVGNSELNPNSETESERKDEL SDWSLAGEDDRSDRIQDRRRRPGGRG RSVSGGRGRGGPRGGKSSISVLDKDPDS NPYSLDNTESDQATDADA/SESHSTN RRRR/SIRRRRTD/EDAVLMDGMTDSDT ASVNGENGLVTVADYISRAESQIQRNLP RETLAKNKKEMAKDVEIEHGPSEKAING PITSASGDDISKAT/RVLRGEEKINPLKEE NTQEAAVLNGVS
5081	13132	A	5948	1	392	TESERKDELSDWSLAGEDDRDRSHQDS WRRPGGRGRSVSGRGRGPRGGKSSIS SVLKDQPSNPYSLDNTESDQATDADA SESHSTNRRRRRRRRRTDEDAVLMDG MTNESDIASVNGENGLKGRCD
5082	13133	A	5949	269	973	PAAICSPANNICFYGECSYCYSTEHALC GKPDQIEGSLGAFLPDLSLAKRKTWRN PWRRSYHKKKAWEVDPDYCEEVKQT PPYDSSHRILDVMDMTIFDFLMGNMDR HHEYIEFKPGNETFIHLDNRGFGKYSH DELSILVPLQOCCRRKSTYLRLLQLAKE EYKLSLMAESLRGDEQAPLYQHLEA LDRRLRVVLKAVWDCVERNGLHSVVD DDLDEHRAASAR
5083	13134	A	595	374	665	GAQQLSLSPRLECNAGAILAHNCNLCPLGSS NSPGSAS*VAGTIGMHHAHRLMFVLVE SGFHVVGQAGLELLTSSDPPASASQAGI RGISRRAGLDF
5084	13135	A	5950	1	106	
5085	13136	C	5951	146	280	MVFKDQKMRFCFCNQXXXLMLNXXX XXXVLREKKGGSPPEFL*
5086	13137	A	5952	2	1929	MAAAAVDSAMEVVPALAEAAPEFVAGL SCLVNLPGVEVILEYLCGSLTAADIGRVS STCRRLRELQSSGKVVWQFVRVRWPSL MKHYSPTDYVNVWLEEKVVRQKAGLEA RKIVASFSSKRFTSEHVPCNGFSDIENLEG EIFFEDELVCILNMEGRKALTWKYAKK ILYYLRQOKILNNLKAFLQOPDDYESYL EGAVYIDQYCNPLSDISLKDIAQIDISVE LVCKTLRGNNRRHPSLTFIAGESSMIMEIE LQSQVLDAAMNYVLYDQLKFKGNRMDY YNALNLYMHQVLIRRTGIPISMSLLYLT ARQLGVPLEPVNPPSHFLRWCCQAGAGA TLADIFDYTIIDAFGKGLQTKGCEYLIG QHVTAALYGAVNVKVLQRMVGNLL SLGKREGIDQSYQLLRDSDLLYA/MYP DQVQLLLIQAQRYVYHLGJWPEKSFCVL LKVLIDLQHIQTLDPGQHGGAIVGYLAQ HITLEHILERKKEEVGVVKLRSDKEVHR DVCYSIGLHYGRUKRYGLAPLCYVYGV GYTLAWMGHEDLSRNNMNVHSLPHGH OPFVNVLVEDQSCRYAAQENILEYNAEP QEISHPDVGRVYSORTFTYTHYIPNAEL EIRYPEDLEFVYVETVQNYKCKRKENIE

5087	13138	A	5953	3	364	FFSPETESHCIAQAGVQWQMLGSLQSPF PFSCSLSPSSYDYRHAPLHRANFLFLR DGVSAWCPATAPGLLLIFFGRAPWMPV IPAPREAEAGGSLEARSSRPASLQVVSFFS PFFHMF
5088	13139	A	5954	2	114	FFFFGRDK/SLTMLPRLVSNCAQGLP WPPEVLRLOA
5089	13140	A	5955	3	139	FFFFETETHTVARAGVQWCHLASLQPL PAGSSHSPAAASHVAS
5090	13141	A	5956	274	363	
5091	13142	A	5957	7	1047	
5092	13143	A	5958	7	960	
5093	13144	A	5959	2973	3400	GHFMCPDMYTSKTLKACLFALFFIITYP IYFPLVGIMEEYIKMCNIPQVIGSFYKLP *SLSV*FFFETESCFTQAGVLWCYLLSL QPPPPGFKRFSCLSLSSSWDYRHLPPCPA NFC/IFSRDGVSPCWPG*SQIPDLR
5094	13145	A	596	1	685	EIKYHSLPRLCEGRGEISAH*NLCLPGSSDS PATAS*VAGITGMHRHYAQLIFLFLVET*F HHVGQGWKRTPSNDPPASASQAGDY RRD
5095	13146	A	5960	6459	7074	LEARAGSYRDLPGSHYLLAFFFFFRRS LTLFSQAGVKWCGLGSSQFSGFKQF SCLSLSSWDYRHAPPYRG*FFFFFFFVF LVEVGSPCWARLVLNARQQVHPPFRAS QSAAGTTAYSHHAQPLCLEYLFHYF/CIF LRLSFALQPQARVQWHNLSLQPPPGF KQFSCLSLSSWDYRWPPHPANFVLL RYLR
5096	13147	A	5961	1	361	VCYPRDRDCGESLVAASYRQVPVHQGW FHPLKPA/SHPTD/ECVFRKTPKIPQKHS GSPRP/PPSPSYRGRFLFRFHPHQGAQOP SPPLGRKHRPSHTGSAALRACPPPGAA GLHSWGOL
5097	13148	B	5962	27	288	MRKVHVSTVTPNYAGGPKRFRATYTR QQVLELEKEFHYNRYLTRRRVEIAHAL CLSERQIKIWFQNRMRKWKDKHLKPN TIRSGX*
5098	13149	A	5963	1	825	MSSFLINSNYDPKFPFCEEYSQSDYLP DHSPGYAAGQRRESSFQPEAGFGRRAA CTVQRYAACRDPGPPPPPPPPPPPPGL SPRAPAPPPAGALLPEPQRCCEAVSSPP PPCAQNPLHPSHSAKEPVPVYPMWR KVHVSTGRYSLSEVGSGWGVVEVEEEK EEESNPNYAGGPKRSRTATYTRQQVLEL EKEFHYNRYLTRRRVEIAHALCLSERQI KIWFQNRMRKWKDKHLKPNLTKHSGG AAGSAGGPPGRPNGGPRAL
5099	13150	A	5964	656	1164	
5100	13151	A	5965	1	4033	MWRRKHPRTSGGTRGVLSGNGRVEYGS GRGHLGTFEGRWRKLKMPAEVAGTDPS TSRKMAELEEVTLDGKPLQALRVTDLK AALEORGLAKSGOKSALVKRLGALML ENLOKHSTPHAAFQPNQIGEFMSQNSFI KQYLEKQOELLRQRLEREAREAAELEEA SAESEDEMIHPGVASLLPPDFQSSLERP EELSRHSPRKSSSISEEKGDSDDEKPRK GERRSSRVQARAALKSEGSQPAEEED OETP
5101	13152	A	5966	3	5979	KSSSISEEKGDSDDEKPRKGERRSSRVQ ARAALKSEGSQPAEEEDQFTPSRNLRV RADRNKLTETEEEEEEEEDEEEEDG DEGQKSREAPILKEFKEEGEEIPRVKPEE MMDERPKTRSQEQVLERGGRFTRSQEE ARKSHLARQQEKEMKTTSPLEEEEREI KSSOGLKEKSKSPRLTEDRKKASLV ALPEQTASEETPPPLLTKEASSPPHPQL HSEEEIEPMEGPAPAVLIQLSPNTDA

5102	13153	A	5967	16	208	LLPYSTNPPASASRLAVIAGVVHHHTQLMF FLVETGSHCVTQSGKLKPASSNPPTGLT MLGLQV
5103	13154	A	5968	1	932	MKFLLDILLLLPLIVCSLEFVKLFIPKR RKSVTGEIVLITGAGHGIGRLTAYEFAKL KSKLVLDINKHGLEETAACKGIGAK VHIFVVDSCNREDIYSSAKKVAEIGDV SILVNNAGVVYTSDLFATQDPQIEKTPE VNVLAHFVWTTKAFPLAMTKNNHGHVIT VASAAGHVSVPFLLAYCCKSFAAVGFHK TLTDELAALQITGVISLCLCPNFVNTGFI KNPSTSLGPTSSCSRVPKLVPEEVVNRIL MHGILTEQKMIFPSSIAFLTTLERILPERF LAVLKRKISVKEFAVIGYKMKPH
5104	13155	A	5969	1	1202	HTGENPYECHECGKAFSRKYQLISHQRT HAGEKPYECTDCGKAFQLKSQLIHQRT HTGEKPFECSECGKAFNTKSNLIVHQRT HTGEKPYSCNECGKAFTFKSQLIVHKGV HTGVKPYGCSECGKAFSLKSQLIVHQR HTGVKPYGCSECGKAFSRKSYLIHMRT HTGEKPFECHECGKSFSTNSQLIVHQRIH TGENPYECHECGKAFNRKQQLISHQRT AGEKPYGCSECGKAFSSKSYLIHMRT GEKPYECNECGKAFIWKSLIVHERTHA GVNPNYKCSQCEKSFSGEITPLHQRMH TTEKPYECSECGKAFIRNSQLIVHQRT GEKPYGCNECGKTFQSKSILSAHQRTHT GEKPKCKTECGKAFCKWSQLIMHQRT VDDKH
5105	13156	A	597	3	198	GIPGSSFCGLCGDVPKGPV*RADGSC*DG VAPRLLRPRGFRGGRCGPVLDLSAQRG AESGCRG
5106	13157	A	5970	153	571	LLVYFLPTPSLKGGRLQDMSLLCQLYS LYESIQEYKGAQQAASSPNWTYALENGF FDEEEEYFPEQNSLHRRDRGPPRDL VAPPSPAATGFWSPSRGSEWGCDCWEAL PTGHAVIICCFSCCKAPPLVTVLGHG
5107	13158	B	5971	223	347	XNYIRVFGGGTKLTVLGQKAPSVTLF PPSSEELQANKATL*
5108	13159	A	5972	2	283	LHSRLDGAACILPGHCHGSRVEVTYETH QCGLVGLKLLRGGREQSDRGGSLGLT*D GQLGPPAEQRTTQAVIPCAVIMSLILRL EPTDGGGG
5109	13160	A	5973	3	231	RRQAQLAAGRVLVVALFGGCGGLHSRL DGAALCLPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSLGLT
5110	13161	A	5974	2	385	AFEMRDPAAVASVGF/PLLRQAQVAAG RILVVALFGGCGGLHSHLDGAACILPGH CHGSRVEVTYETHQCGLVGLKLLRGGW EQSDRGGSLGLTEDQVQASSEDLSIWP KHAVIVSLILRLEPGDE
5111	13162	A	5975	3	539	RRQAQITAGRVLVVALFGGCGGLHSRL DGAACILPGHCHGSRVEVTYETHQCGLV GLKLLRGGREQSDRGGSLGLT*DGQLGP SAEHPLITITPLTVIVGLIPLDPGDGO GGRVPRAGAENRSGIPAGRSAS**MTNT GARPGFCWYHCTLSPISPPQVILAVFP GATDTEGG
5112	13163	A	5976	1	351	RGGWEQSDRGGSLGLTEDGQLGASSEH RTMQAVIPCCCTVIISLIRLESTDGGGG*G ARLGARESVSDP*GPLIITIDEEFGGPSWD LLVPVYNINSVDVGVASRTDGDPLPGGP RR
5113	13164	B	5977	78	448	XQRVTISCTGSSSTIGAGYDVHWYQQLP GTAPKLLIYGNSNRPSGVPRFSGSKSGT SASLAITGLQAEDEADYQCYSYDSSLG YVWFGGGTKLTVLGQPKAAPSVILPPPS SEELQANKATL*

5114	13165	A	5978	1	393	RVLVVALFGGCGGLHSRLDGAAILCLFGH CHGSRVEVYETHQCGLVGLKLLRGG EQNDRGGSLGLT*DGQLGSAEHPSGTT TSSI*TAIISLGLSLEPINCQGGRGTLGSI EIYNKPLRADYRPHKS
5115	13166	A	5979	3	389	LPGGPGTMVAFGGLPTVQGRVQOGALAP VLVGACLEGCGGLHSRLDGAAILCLPGHC HGSRVEVYETHQCGLVGLKLLRGGRE QSDRGSLGLDLGRSAWSLRRPHDKDH WCLLDNSNSQPRLLPGRH
5116	13167	B	598	188	246	MAWLPGSCARVAFPAAGAAAR*
5117	13168	A	5980	1	908	AGHRGRRAFRKGQGGQSGSLGAGFSG WDRKWWVKGVSVRAIEGVTGVPARD NSIQAGGREVGGYALRRGRNERAEG VFSDQTSPIRASFTRRHPRGLCASPSGLS HWVPGFPHTLRTQGRPPIMCEIRKEERE QDFSLTMRIFIEKGWMTWDGGRDPSPG NLQLQAPVGGVRVGGKAFGRGHCLLH GAPFMRDFAAVASVGLPLLGRQAQVAA GRLLVVALFGGGLQSHLDRAAAILCLPSH ICTGFRVKIHFKNHVGVLGLKLLRGGW EQSDRGSLGLTEDQGLGASSEHSTQ
5118	13169	C	5981	60	392	
5119	13170	C	5982	176	385	
5120	13171	A	5983	1876	2540	FLQLGSLWLGSGCQVSRGPGQPRSDNLL VEPKDLKGNLTHFTTLGGFHLLYMMIWI HPPINLCSGNSFFLFFFFSRLGLALL PQAGVEWRDLGLLQPLPPRLEQSCPSS GSSWDRRFMPWPANFCM/FL*RWGLT VLPRLVNSWAQ/CDPPVASQSGAGITIV SHHVQLEGSTSFCKHCIFTPPPFSFLF ISHFYIDLFLYNKTLPLKKKKK
5121	13172	A	5984	1	393	
5122	13173	A	5985	1	1427	MRERFRNLDEEVEKYRAVYNKLYRHYHT FLKSEFEHQEYARILDEGKIKYSEIA RLEEDKEELRNQVNLVNDLTKDSKRVEQL AREKVYLCOKLGLEAEVAELKAEKEN SEAQVENAQRIQVRQIAEMQATVRSLE AEKQSANLRAERLEK/DSLQSSSEQNTFL INKLHKAEREINTLSSKVVELKHSNKLEI TDIKLETARAKSELDRERNKIHSELDVYL HLDNEILKAAVEHHKVLLVKKDRELIRK VQAAKEEGYQKLVVLQDEKLELENRLA DLEKMKVEHVDVWRQSEKDYEEKLRA QMAEETRKELQSVRLKLQOQIVTIEAE KEKNENSLDKQOISSLOQIVTSLAQSEND LLNSNQMLKEMVERLKQECRNRFSQAE KAQLEAEKTLLEKQIOWLEEKHLHERI TDREEKYNAKEKLQRAAIAQKKRKS HENKLRLQEKVEVLEAKKEELETENQ VLK

5123	13174	A	5986	2	1831	NYKTLIICALFTLVTVLLWNKCSSDKAI QFPRSSSGFRVDFGEKRAAASESNYIM NHVAKQSQSEAFQEQQKAPPVVGGFN SNVGSKVLGLKYEEIDCLINDEHTIKGRR EGNEVFLPFTWVEKYFDVYGVVQYDYG YDRFEFSHSYKVVYAQRAPYHPDGVFM SFEQYNVEVRDRVKCISGVEGVPLSTQW GPQGYFYPIQIAQYGLSHYSKNLTKPPH IEVYETAEDRDKNKPNWDVTPKGCFFMA NVADKSRFTNVKQFIAPETSEGVSLQLG NTKDFIISFDLKFLTNGSVSVVLETEKN QLFTIHYSNAQLIAFKERDIYYGIGPRTS WSTVTRDLVTDLRKGVGLSNTKAVKPT KIMPKKVVRILIAKGKGLDNITISTAHM AAFFAASDWLVRNQDEKGGWPMVTRK LGEGFKSLEPGWYSAMAQQAISTLVR AYLLTKDHIFLNSALRATAPYKFLSEQH GVKAVFMNKHWDWYEEYPTPSFVLNG FMYSLIGLYDLKETAGEKLGKEARSLYE RGMESLKA MLPLDYDTGSRTIYDLRHFM LGIAPNLARWDYHTHINQLLLSTIDES PIKFEFVKRWKSYLKGSRACHN
5124	13175	A	5987	34	332	LLRQGLALLPRLECSGTISAYCNLCPLGS NHPPIVSVSQVAGTTGVHHHAQLIFVFW VETGFCHVAQYGLEFLGSSNPALTSPSA GITGVSHCIWAQVF
5125	13176	A	5988	3	395	PAGGPAAGRAAARAGAMAKLLSCVLP RLYKIYKERDSEAPASVETPTAVTAFH SSS/WGYLSLSKVVPFSHYAGTILLLLLAG VACLRSIGRWTNPPQYRQFITILEATHRNQ SSENKROLANYNDFRSW
5126	13177	A	5989	3	414	
5127	13178	A	599	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTORFFDSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAHFHGKEFTPEVQASWQKMTVGASA LSSRYH
5128	13179	A	5990	3	784	LIALRTCTESPGTTHASADAWEAKLLSC VLCPLRYKIYRERDSEGAISETEPTAD TAPHSSWDITYYQPRALEKHADSLALA SIFWPISYYSCTFAFFLYLRKGYLSLSKV VPFSHYAGTILLLLLAGVACLRIIGIR/WT NPQYRQFITILEATHREPSLQTKRQLAN YNDFRSWPVDFHWEEPSRKRERGGP/S RRGVALLRPEPLHRTADTLNRVKKLP CQITSYLVAHTLWRRMLYPGSVYLLQK ALMPVL
5129	13180	A	5991	461	660	
5130	13181	A	5992	1	1774	MSSEEVSWISWFCFLRGNEFFCEVDED YIQDKFNLTGLNEQVPHYRQALDMILDL EPGIGRWTNPPQYRQFITILEATHRNQSE NKRQLAVYYFFDFRSWPVDFHWEEPPSR KESRGGPSSRRGVALLRPEPLHRTADTL LNRVKKLPQITSYLVAHTLGRRLMLYPG SVYLLQKALMPVLVQGGQARLVEK/CNG/ RRAKL/LACDGNEDTMFVDRRGTAEPQ GQKLVICCEGNAAGFEVGCVSTPLEAGY SVLGNWHPGFAGSTGVPPQNEANAMD VVDQFAIHRLLFFHPQDIHIALAIGGTTAT WAAMSYPDVSAMILDASFDDLVPLALK VMPDSSWRGLVTRTVRQHLNLNNAEQLC RYQGPVLLIRKTDQGNLTPTVP/KDICSN RANCLLVKALQHRYPGVMAEEGLLVA RQWLEASSQLEEAISYRWEVEEDWCLA SVLRSYQAEHGADFPPWSVGEDMSA/D GRRQAGPLFFGLGKASCHNFGGPTHCT PLPSPQNFFRCPWHPLGTQLGLIMEEWG ERRIHEERPFLEVILLCFMFAVYKFCGV

					GGPFPLLTTVPLARFSPFMWLYLTFSNH PALHEMG
5131	13182	A	5993	3	180
5132	13183	A	5994	1	1015
					MIAPFLGLGLVLRDQYRQAALADWDLKL DGGQRSTGAVSLKEHGLEGVELGADGK TVSYTQFLLPNTAFGARRNTIDSTSSFSQ FRNLSHRSLSIGRASGTQGS.DTGSDLGD FMDYDPNLLDDPQWPCGKHKRVLPFSY MLCTQLPCSQAFKCS TVHSSDLSLHERN EHPCKKHNCLLQEGHSPLQAPGFRRALV VAPMQVFPLLMALGVTTVIDYVKPS/DL KKDMNKKFFKEKFPPIIKLTLNKIRTLKRE MRKLAQEDCALEPTVPMFAVYFEKLA LKGLKNQNRKLCAGACVLVSQYKFG SDLKKEVKKHLIDLKLEKFRNLNARTGF AF
5133	13184	A	5995	48	327
					EELEALRRVQRLAELQAKHGDPGDAIAQ QEAKHREAEMRNSILAQVLDQSAAR/V SEQGLIEIKKVSQQTERTTKVFNRRKV MDSDEDDDY
5134	13185	A	5996	52	281
					VSKLKHLLKPEKTKAVENYLIQMARYG QLSEKVSLSLEELYCYLLYNMASKGQ LHLHWITFLLTLRRNCWRE
5135	13186	A	5997	1	280
					GNPLFFLELHWNPSLRJQACDRIYRVGQ QKIDVSIPIRVCGGTVEESILHFQEKIDL AKQFLSGSGESVTKLTLSDLRVLIGIYPP VDRVSE
5136	13187	A	5998	36	512
					LFVLLQVNVSGNELCLMTSHLESTRGHA AERMNQLKMVLKKMQEAPESATVIFAG DTNLRDREVTRCGGLPNNIVDVWEFLG KPKHCQYTWDTQTTELLIGITAAACKLR FDRIFRAAAEEGHIIIPRSLDLGLEKLD CGRFPSDHWGLLCNL/DIIL
5137	13188	C	5999	205	519
					MGKEGVHGGGLINKKCYEMAFPIQAFPV LTSSVPSPPLPTALHPFXHTHTNHEIF WATTPYPLLPKPHGLGARAGWTDTSY PYPSRVWLENFCFLGFFFE*
5138	13189	A	6	144	398
5139	13190	A	60	713	811
					IPGRPWRL*A*PVTLRLQTQATCGG*MV RASL
5140	13191	A	600	3	496
					HSLFGTSEVINKLRSPDAMGHFTEDKG ITSLW/GK/VNVNEDAGGETLGRLLVVYP WTQRRFDSFGNLSASAIMGNPKVKAH GKKVL.TSLGDAIKILG*SQGAPFAQA*S ELHVCDAALLDPEELSSFLGEMLLGDFF LGNPIFGQKNFTTEGCKAFLGOKDG

5141	13192	A	6000	3	939	FLKLHLQSSSVGLASGGGREGWAGSGV RGLLHSESRSGPDGSACPELSASPRPASR GSSSPVGRGQQQRPAAAPVAAPWPCWN AYIDNLMADGTCVTGAIVRYQDSEPPV WAIAVPKGTFFVNNIPA*GGI.SLVGKDUR SSFLR*MGL.TL.WGGQK/CSVIRGL.TCLQD GEF/SAMD.LRYQEPGPAGTFCQSL.FTKT ADKDG*VLADGAKEGVHGLT.NKKCYE MASHL.SGFPSTDHRLSLPLHRSPTAEAPL SSPYTHPFLFFGP.LHTPYCCQNHMGL GGQGL.MGQTPSPHIPS RVWYGKLLFFG VFFFSE
5142	13193	A	6001	172	407	
5143	13194	A	6002	1	185	ESSCLSLPSSWDHRHGRFWLADFVVFV/C YRNSLTMLPRLGLNSWPQAILPPWPPKV LGLQA
5144	13195	A	6003	1	618	
5145	13196	A	6004	1	478	HPVRFFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSAVADKLDNSRSLKRRY YRQHCTLELGSYIKDL.SVVHSDLSIVIL DNSPGAYRSHPDNAIPKSWFSDPDTA LLNLLPMLDALRFTADVRSVLSRNLHQ HRPLTGTTGGTLGEPNQCL
5146	13197	A	6005	2	833	WNSAELGRGGPGAGGAGVIGMMRTQC LLGLRTFVAFAAKLWSFFIYLLRRQRTV IQYQTVRYDILPLSPVSRNRLAQVKRKL VLDLDETJHSHHDGVL RPTVRPGTPPDF ILKVVIDKHPRFFVHKRPHVDFLEVA/V SQWYELVVFTASMEIYGSAVGRNLWD NSRSIL*GGRYYRQPAPELG/SYIKGPL CWFHSDLS/SIVILDNSPGAYRSHPGYGG RUDNAIPKSWSVTPSDTALLNLLPMLD ALRFTADVRSVLSRNLHQHRLW
5147	13198	A	6006	2	258	EAESRSVPRLCSCGPILAGCMLHLPSC HFPASASQVAGTTHARHHTQLIFAFIVE NGLC*PGWSRSPDLVIRLPWPPKVLGLQ A
5148	13199	A	6007	60	429	IRGQYMWGPVSSSLFCSMGYLVFGFFSFI FFFCDEVLLSTRLECNGTSGHCNCLCP GSSHPVSAASRVAGTTGARNKARLJFLYF FLVEMGFHHISQDGLDLLNLVIRPPWPP KVLGLQA
5149	13200	A	6008	1	1047	SCGWTFMSKLLRHRKKHDDDRFTC PVEGCGKSFTAEHLKGHSITHLCTKPFE CPVERCCARVSARSSLYIHSKKHVQDVG APKSRCPVSTCNRLFTSKHSMKAHMVR QHSRRQDL.PQLEAPSSLTPSSELSFGQ RELTNMDLAALFSDTPANASGAGSGDE ALNSGILTIDVTSVSSSLGNNLPANNSSL GPMPEPLVVAHSDDIPPLADSP.LVGTAA TVLQQGSFSDVDDQTVSAGALGCLVAL PMKNLSDDPLALTSNSNLAHHITPTSSS TPRENASVPELLAPIKVEPDSPSRPGAVG QQEGSHGLPOSTLPSPAEQHGAQDTELS AGTGNFYLV
5150	13201	A	6009	66	423	MEVACRQSTSWQPMDLASSSDFRPRMQ NPTTNRHQSANCLQGDGSPRRMSASKR YFEKTNACRPPSSFTKHSRESSGSPVSR CTGTFR*NVTKQPYFTSSKHKRTGKVYV RISVV
5151	13202	A	601	24	452	AFSPDAMG/HS.LWGKVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSASAIMGN PKVKAHGK/V.LTSLGDIAKHLDDLK.GTF AQLSELHCDKLVDPENFKLGNVL.VTV LAIHFGKEFTPEVQASWQKMTGVASAL SSRYH

5152	13203	A	6010	44	283	FSCILIHDAFFCLILHDAFFCSCSVTGS VLSRVPLRGTHQKSAIATSTKIALSNM/KI LKIHHTDAYFKKQQLFFDVSKK
5153	13204	C	6011	107	118	MAV*
5154	13205	A	6012	197	683	SLEVPGLGFLLYLSFILLYSCFLPSNRVLLC HRDPFLSFLDLFLPAFSPDYVQFLFL*CA PQFSIRH*TL*MLHCKCLDFFFFFFFETR FHPSP/LRLCSCGMISAYCSVTSWTVQVRG TTGTCHHAWLVFIFSVETGFHHVAQPD QLLP/PRPPKVLRLQV
5155	13206	A	6013	1	415	LWREGPKWN/AARLNESTTFVSVSRPTIA CGMVGTIVRFYIKSP/HLFKYAADPRDK HWL/AEQHHMRATGGKMAYLLIEEDIP GPCGPVMITEDALDLKLEGIEPLSLPSW MVEKMRKYMETLRTENEHRAVEAP/PQ T
5156	13207	A	6014	1	1256	
5157	13208	A	6015	2	1594	GRPARGAPORQGTPEAGADKRATAGLC GGGGRRRRHRASORRAGRGEPAGLKS QGQRAVPKRAVARGGQRYSAIAALLPE AGSEIADDSLILYSNRAACYLKEGNCSCG CIQDCNRALEHPFTSMKPLLRAMAYET LEQYQKAYVDYKTVLQIDCGLANDS VNRLSRILMELDGPWNREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQOGI TDEKTFKALKEEGNQCVDKNYKDALS KYSECLKINNKECAIYNRALCYLKLQ FEEAKODCQDALQADGNVKAIFYRRAL AHKGLKNYQKSLIDLNKVILLDPSIEAK MELEEVTRLNLNKDKTAPNKEKERRKI EIOEVNEGKEEPRPAGEVSTGLASEK GGKSSRSPEDEPKLPIAKPNNAVEFGQII NALSTRKDKEACAHLLAITAPKDLPMFL SNKLEBDTFLLLQJLSKNNLIEKDPISLVY QHLLYLKSAERFKMMLTLISKQKELIE OLFEDSDTPNNHFTLEDIQALKROYEL
5158	13209	A	6016	1	449	MAEGEITFTALTEKFNLPNGNYKKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQH QLQLSAESVGEVYKSTETGGQY/LAMDT DQLLYGSQTPNEECLFLERLEENHYNTY ISKHAEKNWVGLKGPRTHYGQKAIL FLPLPVSSD
5159	13210	A	6017	1	153	
5160	13211	A	6018	1	528	
5161	13212	A	6019	223	513	QRGLPEDPSGWSHGWDKQGERPAHRH QMRNVCSWKGWRRITITPIYPRSMQRR GLLASRRMGAANAVLGLTARKQSC*A MAEGEITFTALTEKFNLPNGNYKKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQH QTPNEECLFLERLEENHYNTYISKHAE KNWVGLKKNKSGCKRGPRTHYGQKAIL FLPLPVSYNSRDLFWEG
5162	13213	A	602	38	538	APSPDAMGHFTEEDKATITSLWGKVN VDAGGETLGRLLVVYPWTORFFDSFGN LSSASATMGNPAKVAHGKVLVTSLGDA IKHLDDLKGTFAQADVNTCDKLVHD PENFKLLGNVLVTVLGNPIFGKEFTPEG CKASWAERWVTWSWVPVPCSSRPLKPL CP
5163	13214	A	6020	1	812	MAEGEITFTALTEKFNLPNGNYKKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHS GLNYSWTMHORLQALRTINDHFAGAHA VPSDAQVMGMDAGVYTSKKTAAAFVIVL LYHSQVHLSVSLIMQKPQVQGPWLALS QQLQEDVGLNWNWVETLESWT/SOLHK PLSLVOLQLSAESVGEVYKSTETGGQY/L AMDTDGLLYGSQTPNEECLFLGGLLEE HYNTYISKHAEKNWVGLKKNKSGC

						KRGPRTHYGQKAILFLPLPVSSD
5164	13215	A	6021	1	1471	MESMFSSPAEALQRETVGVLTLPLFD LDGVYELERVAGFVRDLGCERVALQFP DQLLDGAVAVAAARLEETGSKMFILGDT AYGSCCVDLVGAEGAQAQALIHFGPAC LSPPARPLVAFVLSSTFCGLGTLCDQLW GPKPRFQSCAGAAAGEPACAHALEALAT LLRPRYLDLLVSSPAFPQPVGSLSPMP LERFGRRLFLAPGRRLEEVGAFYVGGSK ASDPDLDLDLRLGLWAPGQPFSSCCP DTGKTQDEGARAGGLRARRRYLVERAR DARVVGLLAGTLGVAQHREALHLRNL TQAAGKRSYVLALGRPTAKLANFPEVD VFVLLACPLGALAPQLSGRLFQPIAPCE LEAACNPAWPPGLAPHLTHYADLLPGS PFHVLPPESELWETPDVSLITGDLRPP AWKSSNDHGSLALTPRPQLELAESSPA SFLSSRSWQGLEPRLGQTPVTEAVSGRR GIAIAYEDEGSG
5165	13216	A	6022	1	343	PTRPPTPRTHGQECPLDPVDFLLFRTR AGDPLRRVSSVFNKLIFFSKPQPPCL AFHPRDPFGGSKRPLFWDPFKGPILAPI LSLTQIFFRWSCFFPKSRJAGQWALS
5166	13217	A	6023	3	919	
5167	13218	A	6024	3	275	GLRLGKIGRDCILIGYGASMLLERLMIS SDAFEVDVCGQCGLLGYSGWCHYCKSS CHVSSLPUYACKLLFQELQSMNIPIRLK LSKYNE
5168	13219	A	6025	455	679	
5169	13220	A	6026	1	2064	MTASIRRYHTCATDGEPSVVLVGGDGD LTLVVAALGLDLGLPFMLLPPLMEWMR VAITYAEHRSLTVDSGDIRQAARLLP/ GPEHCFSSFRRLDARAATEKFNQDLGFR MLNCGRTLINQAIIEALGPDGVNTMDD QGMTPLMYACAAGDEAMVQMLIDAGA NLDIQVPSNSPRHPSIHPDSRHWTSLTF VLHGHSVVQLLLDAGAHVEGSAVNGG EDSYAETPLQLASAAGNYELVSLLSRG ADPLLSMLEAHOMGSSLHEDMNCFSHS AAHGHRGIWGLVTGLPACLEEDHETP SPRVQSSPSGQEGTGGQLRNVLRKLLT QPQQAADVLSLEELAEGVESDASSQ GSGEGPVRLSRTRTKALQEAMYYSAFH GYVDITMELRALGVPWKLHIWIESLRTS FSQSRYSVVQSLRLRDFSIREEYNEELV TEGLQLMFILKTSKNDSSVIQQLATIFTH CYGSSPISPEIRKTLPARLDPHFLNNKE MSDVTFLVEGKLFYAHKVLVTASNRF KTLMTNKSQDQDSSKTIEIDMKYHIFQ MMMQLYLYGGTESMEIPTDILELLSAA SLFQLDALQRHCEILCSQILSMESAVNT YKYAKIHNAPELALFCEGFFLKHMKALL EQUMPSGSSSTAAAACRAWHLCRTCRT PWQSACTLSTSPGSA
5170	13221	A	6027	2	144	LFYEMESCSIAQAGVQWLSGLLQAPPA GSCHSPASASCELMFFKI
5171	13222	A	6028	163	465	
5172	13223	A	6029	1	1614	
5173	13224	C	603	83	349	
5174	13225	A	6030	163	1917	

5175	13226	A	6031	133	424	PFLCDL FHLVIFISDSLFLMVIDFVNGTFM ISFINRILLGQNRDGI V FSTDDYFHHQDG YRYNVNQLGDADHWQNRGLFWAKCP RIEYLARSQKT
5176	13227	A	6032	3	270	EKMESSGSAVKLECRGTISAHCNLRPPGS SDPPASASQIAATTGVHHINRLIPALVE TGFEHVDAQGLELLT/LVIHPPRPVKVLG LQA
5177	13228	A	6033	407	720	RHNSSNFFFFFFFTESTRSIAQACMQWC YLSLQSLPPGKRFSCLSLPSSWDDRCF PPCLANFVFLVETGFCFHVQAGLELLIS GDFPASASQSGITGMI
5178	13229	A	6034	1	135	KEAPGLKKENNCFVCAICQINMEGKTL SKKDRPICKSHAFFHV
5179	13230	C	6035	96	410	
5180	13231	C	6036	108	422	
5181	13232	A	6037	2	195	CLPRFMPILPASTSQVAGNTGAHHHARLI FVFLVEVGFHHVQAGLL/ISLPMIHP RPPKVLGL
5182	13233	A	6038	251	377	LGLAQITLDNPLGGEGLECAPTGPLEPP LAYTVNLILKSKARRTEPOKYFSSHAK NGG*REGVAA*APTGPLEPPLAYTVNLIL KSKA
5183	13234	A	6039	175	393	ARPTIRLYLSLPVSAQOQREAE/HPRL VPTGPTHREPSFVRVDNLSRHVDSLVA RGEESRRCQGLVVHL
5184	13235	A	604	295	448	NQTCVCWHACAYVSSNRVPWSIGSAIRS VCCYPLPPALCAPCL*ISTALD
5185	13236	A	6040	1	537	
5186	13237	A	6041	1	1555	MPYSINLAIRDTFVNASRTLYSSSPRVL NNSDANLEINTWVAKNTNNKISRLDS LPSTDRLVLLNAIYLSAKWKTTFDPKKT RMEPFHFKNSVIKVPMMNSKKYVVAHFI DQTLKAKLSRGDSLKEPTSAESSRHPSY RSEPSLEPESFRSPTFGKSFHFDPLSSGS SSSLKSAQGTGFELGQLQSRSEGTTS YKSLANQTRNGSLSDSLTPSDSPDFES VOAGPEPDPPLGYTSPFLSARLAQOREA ERHPRLVPTGPTHREPSFVRVDNLSRHIV ASLQEREKLLRQSPPLPGREEEPGLGDSG IQSTPGSGHAPRTSSSDSKRSPGLKTP LGRPAVPRFGKPDGLRGRGVGFEPGP APYLGSRMSYSSQIAQPGVSETEVDLRP LLTPKDEVQLKTTYKSNQPKSLGSAS PGPGQPPLSSPTRGGVKKVSGVGTTYEI SEFDHICPVVNNCIGRNRNYFFFLLS LTAHIMGVFGGLLYVLYHIEELSGVRT AV
5187	13238	A	6042	1	627	TRREAERHPRLVPTGPTHREPSFVRVDN LSRHIVASLQEREKLLRQSPPLPGREEEP GLGDSGIQSTPGSGHAPRTSSSDSKRS PLGKTPGRPAVPRFGKPDGLRGRGVG SPEPGPTAPYLGSRMSYSSQKAPGVSE TEEVALQPLLTPKDEVQLKTTYKSNQ PKSLGSASPGGPPLSSPTRGGVKKVSG VGTTYEISV

5188	13239	A	6043	3	2265	FTWLERGGGEPAARPOTPQTAPESRGP SGASALRCRGPTARSLPASM.LGAPDES SVRVAVRIRPQLAKEKIEGCHICTSVTPG EPQVHLGDKAKFTFDYVFDIDSQQEQIYI QCIEKLEIEGCFEGYNATVFAYGOTGAGK TYTMGTGFDVNIVEEELGHISRAVKHLF K'SIEEKHIAIKNGLPAPDFKVNAAQFLEL YNEEVLDLFDTRIDIDAKSKSNRIHED STGGNLYCGRLPTRTIVNTESEMNCCLK LGALSRITASTQMNVOSSRSHAIFTHVC QTRVCPQIDADNATDNKISEAQMNEFE TLTAKFHFVDLAGSERLKRGTATGERAK EGISINCGLLALGNVISALGDKSKRATHV PYRDSKLTLLQDSLGGNSOTIMACVSP SDRDMFETLNTLKYANRARNIKNKVMV NQAEVLKSMHFPVKSHDFRWSWSWT KPKGRIDEEGVESINDMFHENAMLQTE NNNLRVRIKAMQETVDALRSRITQLVSD QANHVLARAGEGNEEISNMIHSYIKEIED LRAKLLESEAVNENLRKNLNRATARAP YFSGSSTFSPILSSDKETIEIDLAKKDLLE KLKRKEKRKKKS VAGKEDNTDIDQEKK EEKGVSERENNELEVESQEVSDHEDEE EEEEEEEDDIDGOESDESDESSEDEKANY QADLANITCEIAIKRKLIDELENSQKRLQ TLKKQYEEKLMMMLQHKIRDQTQLERDQV LQNLCSVESYSEKKKK
5189	13240	A	6044	2	323	EDQGLYSIRMEGARGCLAKSLAL*GAGR GFYSGERTWTLSPSGNCAPYQRRGGW WSHA*AHSNLNGVWHHGGHYRSRYQD GVYWAEFRGGAYSRLRKAAMLIRPLKL
5190	13241	A	6045	3	902	PFFCSTISYRLCEGAAGQKKVLPPLPV PVVPVRLVGSTRDTSRMRDPAPEPQRDQ TQRQOEPMASPMAPGHPADPTKPVGPW QDCAEARQAGHEQSGVYELRVGRHVVS VWCEQQLGEGGWTVIQRQDGSNVVFT ISWQHYKAGFRPDGEYWLGLEPEHHL TSRGDHELLVLKEDWGGRGARAHYDG FSLPEPSDHYRLRLGQYHGDAGDSLW HNDKPFSTVDNRDYSQNCALYQRRG WWYHACAHSNLNGVWHHGGHYRSRY QDGVYWAEFRGGAYSRLRKAAMLWPLK L
5191	13242	A	6046	3	218	KAVSLSVTQAGVQWLLISLQSPPPRFNRF SCLSLPSSWDYRQVPPRPAFCIFSRDRV SPCWPGWSPPTNLK
5192	13243	A	6047	1	297	MVSVLYFPTHPSFPVLLCLVCPGRLIL RDCNPPRLPFVVIDFCLGLVNGMPWHSF GGKKREDNVFLHCSHSDLGYVLLAGTA SLQDFSFFQKSPPP
5193	13244	A	6048	1	8157	
5194	13245	A	6049	1126	1355	
5195	13246	A	605	43	208	ARTLIEVIGLSHHNQKAHAMLLNAP*SSI RASPR*SGY*SSLWNQTSRFQIPAPT

5196	13247	A	6050	1	1627	MGSRLNPPPPAHSDTTGKDSFGNIRGA ETGOGASACSVTSARVTCGAGSEPHSHR NPGISAQVGLPSYGAARGRRRPLALQQ SPOERRHVGVNSTRGLLPASLPGTASSQ SASATASAAFLKVTGPLARNP1PPWTA AAALATRGORPEKGLFPGPAPPSLGRK RGRGRTWERRRRVSIEITCTCPGRCERL GAAAGANLSQLASSQRLRERWVLYTII MAAAGAPDGMEEPMDTEAETVATEAP ARPVNCLEAEATAGAGAGTVAEDSGTA RGSLOPAPAPAAQPGDPVSQASVSNGE DSGGSADSELVDLRIHWKTKHDVKFPL DSTGSELKQKIHISITGLPPAMQKVMYKKG LVPEDKTLREIKVTSAGAKIMVVGSTINDV LAVNTPKDAAQODAKAEENKKEPLCRQ KQHRKVLDKGKPEDVMPSVKGAQERLP TVPLSGMYNKSGGKVRLTFKLEQDQLW JGTERKTEKLPMSIKNNVSDPNEGHED YHNDGRFQLAPTEASYYVWVYVPTQY VDAIKDITVLGKWQYF
5197	13248	C	6051	47	298	
5198	13249	B	6052	64	362	XCVWHRKRVAVNLAKLKLFRHYHYVMV JCYVYFTRJIAILLQVAVPFQWQWLYQPT GNNPYLQLPQDEEDVQMEQVMTDSGF REGLSKVNKTASGRELL*
5199	13250	A	6053	1	342	
5200	13251	A	6054	1	485	
5201	13252	A	6055	696	3195	SGRRTPMASCRRQRCPPSSSTWSCPPAS WPLASSGCPSSAGTRTASFKIHWMAL AFTKSISLLFHSVRALDRGAAGAPITSFES HPPSSLFNFLTTHLMVTVRVNPPPPPSA SHPSVRLTVRLSIHPQINYYFINSQGHPIE GLAVMYIAHLK GALLFITALIGSGWA FIKYVLSDEKKEKVFVIGIPMQVLNAVAYI IIESREEGASDYVLWKEILFLVDLICCGAI LFPVVSIRHLHGCVWHRRRMVAVNLA KLELFRHYHYVMVGARLTHSGFGGITGL LHAHPSPSAAAPSRGPHGPSARILQSSP MPARAPTVLAPRLLAPLOVICYVYFTRII AILLQVAVPFQWQWLYQLLVEGSTLAFF VLGTGKFOPTGNNPYLQLPQDEEDVQ MEQVEAHTLKLVDKISTVSNVFSEMK ENMDKELQIMRMYYERRICVADPFVET VMQDFFIDLRLPYSVVRNEQVEIRAVLY NYRQNOELKVRVELLHNPACSLATTKR RHQOTVTIPPKSSLVPYVIVPLRPACRK WKSRLSTIISVTVSGKGVQKEDIPPAD LSDQVPDTESETRILLQGTVPVQMTEDA VDAERLKHILVTPSGCGEQNMIGMTPTV IAVHYLDETEQWEKFGLEKROGALELIK KGYTQQLAFROPSSAFAAFVKRAPSTWL LILEKQKPDGVQEDAPVHOEMIGGLR NNNEKDMALTAFVLISLQEAKDICEEQV NIHNRYAATROLMVAKISGKFSKMDKS KTAGLADCHSVLDVSNKGVLRDVASTS SGIVDWRGSOIQT
5202	13253	A	6056	1	516	LRQPTPVFVIGIPMQVLNAVAYIIIESRE EGASDYVLWKEILFLVDLICCGAILFPLY WSIRHLKDSAGTDGKVPVNPPLKLLFRH YYVVPAPTPCAPLOVICYVYFTRILANPL QVAVPFQWQWLYQLLVEGSTLAFFVLT GYKFOPTGNNPYLAVAPGGRGCSRWS K

5203	13254	A	6057	3	528	LSCRQVQSVAPPRPRPALPVS AVPGTPTGTL LTPALLHP/WLADCDVSDSSCSLAATLL ANHSLRELDLSNNCLGDAGILQLVESVR QPGCLLEQLVYVQRAQRVVRGLPREE GGGGGGHWAHASLLACVQPVQFTGLR RWRITGLQGP GERTSTSLRGLHLRLFLLL AAALDDRP
5204	13255	A	6058	1	334	
5205	13256	A	6059	225	843	WTRCWSRLRASGSSCEGRAAPRPRCA RYEGGYQRSCGESACGGRVLSLSLRQ HQGSCRNTRAGMFCGRQYIPHPAASPR RPLGRSRNTQMGTPLSRVLLRSCKRKID/ SLKQKVTHLRGLQIPHEPELMRKEISRLN KTVGRENK*LSRSEAGAGGLQVARDAA LERVQMLEQQVSVPRAPDGTQMSAGR WWPKSWDRLG
5206	13257	C	606	892	1269	
5207	13258	A	6060	300	957	GSTKVAETHALGCSVADSTSRTHQQL HRGAHWGEVGTNRWHTSVQSVIEKLQ EENRLLKQKVTHVEDLNAKWQRYNASR DEYVRQLHAQLRGLQIPHEPELMRKEIS RLNRQLEEKINDCAEVQELAASTARD AALERVQMLEQQILAYKDFMSEARADR ERAQSRQIELEEKVASLLHQVSWRQDSR EPDAGRHAQSKTAKYLAADALELMVP G
5208	13259	A	6061	2	271	FFETESRSVARLECSGAISAYCTLCPLGS SDSIASASRIVAGITGEHHHARLLVFLVE MGFHHVQGAGLGLDLVIHPPRPKVLG LQA
5209	13260	A	6062	3	376	DYSLGLPVVTTGCGWHMSNAPLRWALN PSYWGKNQLLCPESLALCCGLCCPKRFL EVTSVRSADLYLSSPCLVRRCLFRGKE KPAVGMRRMPDNKGWRRASSLSRVP APVAASVLTVMN
5210	13261	A	6063	2	70	
5211	13262	A	6064	3	258	ADPPSPSFCFCFFETESCSVTRLCSG AILAHCNLC/LPTCHHAWVIFVLVETEF HHVGEDGLNLLNFMVILPRPPKVLGLQ A
5212	13263	A	6065	1	408	
5213	13264	A	6066	3	25	
5214	13265	A	6067	3	503	
5215	13266	A	6068	1	1740	MAAVVAATRWQQLLLVLSAAGMGASG APQPPNILLMDMDMGWGLGVYGEPS RETPNLDRAAEGLLPNFYSANPLCSP SRAALLTGRLPIRNGFYTTNAHARNAYT PQEI VGIPDSEQLLELLKKAGYVSKIV GKWHLGHRPQFHLKHGFEWFGSPNC HFGPYDNKARPNIPVYRDWEMVGRYYE EFPINLKTEGANLTQIYLQALDFIKRQA RIHPPFLYWAVDATHAPVYASKPFLGT QRGRYGDVREIDDSIGKILEQLDLHV ADNTVFVFTSDNGAALISAPEQGGSGNPF LCGKQTTFEGGMREPALAWPWHVTA GQVSHQLGSIMDLFTSLALAGLTTPPSDR AIDGLNLLP/LTQGRMLMDRPIFYRGDTL MAATLAGQHKAHFWTWTNSWENFRQG IIFCPQNVSVGVTTHNLEDHTKLPLFIHL GWDPCRGERFPLSFASAEYQEALESRTSVV QQHQEALVPAQQLNVNCNWVMNWAP PGCEKLGKCLTPPESIPKKCLWVPLAPA QTQARPRISSWPCKCLEEGWLWPRSSPN PAPSQTDSTCCRRGTCTISNLPRT
5216	13267	A	6069	3	2945	
5217	13268	A	607	187	363	MPLRLPIQDVY*IGGIGTALVGRVESGAV NYGLVGSSVH*AVQSVALDFRNSWML YSQ

5218	13269	A	6070	2	3078	
5219	13270	A	6071	3	3204	AGRGRLWGGTASREPOKSAGKFRPWGA FRASRTALGFGARSOERGGGNAPRPP PPRRLPPAAVLAATAAALPRRGAAL KGGTPPPGALAAARAPREPVAAMPFRAPP APGPRPPRAAATDTAAGAGGAGGAG GAGGPGFRPLAPRPPRWLLLLALPAACS APPRPVYTNHWAVQVLGGPAEADRYA AAHGYLNLGQIGNLEDYIIFHYSKTFK RSTLSSRGPHFLRMDPQVKWLQQQEV KRRVKRQV
5220	13271	A	6072	3	3002	
5221	13272	A	6073	1	1181	MEVSRAGLSTVLEAVLCPADLTAASLDA ASPMPSSSHLPVLGYPVGKSGARPGSTQ EVVLTAAAVTQEVVLTAAAVTQEVVLT AAAVTQEVVLTAAAVTQEVVLTAAAVT QEVVLTAAAVTQEVVLTAAAVTQEVVLT TAAAVTQEVVLTAAAVTQEVVLTITAGA ENKPVSAPHSSSTCARTGSPGRPLHTQSP PRGHILFGKEKV CYKFHDILKHLTLTQLT VDGI VSIPLVQVLRRTALTSA CAEHSQDR VVYLEHVVRVTSISHPRRGDLQIYLVSPS GTKSQLAKRLDLSNEGFTNWEFMTV HCWGEKABEGQWTL EIQDLP SQVRNPEK QG/DVFCTKCHSHQSFEESQDTKSVV AW EGWGCTHGVHCEVPKNL GRSKGHHPL KIKLV
5222	13273	A	6074	3	656	RSFELWTQEGGLSPSPSGW/VIIQSLKNL NRTDSRGRSSPLISCLATGAGTSRHLLP LDWMSTIGCPGSA SRPELSLNHTSGFP GFPAFHPRWWAFSGPQSHINQIPHKSPL CVGSL LQRAYTNTLPLFLQFLRSPTKES TYSQLHPSGSPGGGPGPRQLGLTSPKAS EQPLPGFDWEGQGS DRRAGADSGGRES SGTPGTAVLQRSSCGTSC
5223	13274	A	6075	3	873	AAEGLPVVRIPPFSETTANGTISFTEMVQ DMGAGLAVVPLMGLLESIAVAKAFASH NNYRIDANQELLAIGLTNMLGSLVSSYP VTGSFGR TAVNAQSGVCTPAGGLVTGV LVLLSLDYLTSLFYYIPK SALGAVIIMG RGPVSTPRSF RNALGFLKRLDLLPLCVT FLLCFWEEQDILAGALGSLMLLHLSAA RPETKGSEGPVLVLPASGLSFAMEAL REEILSRALEVSPRCLVLECTHVCSDYIT VVLGLGELLQDFQKQGV ALAFEGQLQVP RLRLVLSR
5224	13275	A	6076	3	256	HASGMKNDLVYTGVDPETLPNRNGDGV /PTGLSPDPQFRTRKIQASLLTLEETMKQ LEELEEFRRKLPLL ANLGNSVPHPGCT

5225	13276	A	6077	1	1966	MAEPLLRKTPSRLRGREKLPRKKSDAKE RGHPAQRPEPSPPEPEQAPGESQAGAFG PSSPEASRSARGAYLQSLPESSRRWVLG GAKPAEDTSLGPGVPGTGEPAAGEIYYNP IPEEDPRPPAPEPPGQPGQSAEGLAPQG AAPASPT/NSLPHQVPGRQAPLHKDEE AAGTAAPEFARPPGWQGAREGCPCGL RHQPLPPGQQRGGPRAGSRAWHGHEPE GRLPQRRGLTGAPSWAPITLLPALRG SRSPGTGRTLGPPQAPVRSRGAAASA GGHPQGLLPTASGWWGGQGNRATARG AGLPAAGPHLPAGAGRQAPARPGACV GPWREKAPALCPGHRAAAHGLPRCQA QQLAVRLEPQGLIYAKILTSEQEAPAT AEPRVFGLPLPLVERERPPGQVFLIJKK VGQIERRGLRVVGLYRLCGSAVKKELR DAFERDAAVCLSEDLYPDINVTAVPSL ALEASGALTRGDPVETGILKDYVRELPT LITQPLYKVVLEAMARDPPNRVPPTTEG TRGILLSCLPDVERATLITLLDHLRLVSSF HAYNRMTPQNLAVCFGPVLLPARQAFT RPRARSSGPQLASAVDFKHHIEVLHYLL QSWPIFACPDNLQMSRLTCDPNDSHLCT CRWQTFKW
5226	13277	A	6078	2	82	
5227	13278	A	6079	1	347	FFFFFFFFLETASHSVAQAGQGQHDLSL QPPPPRFKQFCSLSLSSWDHRIKPPHPP NFVFLVETGFHHVGGAGLELLTSSDPPA SASQMAGITGVSHCAWPTIFKQSNYGM L
5228	13279	A	608	514	792	DSRCPGAMACALRAPPRITNPVSAQWDP ETGSGVAGEPWIWTQERNSQALQRGNV PFCRCRDHEFTLDLGGQGGQIT*GQEFET SLANMAKPH
5229	13280	A	6080	1	779	
5230	13281	A	6081	1	214	HPTAAIVPPGPEAGLIYTPYEYPTLAPA TSILEYPIEPSGVLVWLSQRKAKNSRTV LTFESSDLNLNTA
5231	13282	A	6082	3	435	EPFPGGDCIPRATLESCRSMLMDTVGS GKLNLEQEHHLWNKIKGWQKFKHYD TDQSGHHQTATKMRNAVNTDAGFHLN NQAYDIITMRYADKHMNIDFDSFICCFV RLEGMFRAFHAFDKDGDIKLNVLEWL QLTMYA
5232	13283	A	6083	2	339	GKPTLREFTHLWDKIKGWREIFNNITPS QSGTITGYEMRNA/VNDAGFHLNPNLYD IIVSTRADNHMNDIFESFICCFVRLEG FRAFHAFDKDGDGIHLNVLEWLQLT MYA
5233	13284	A	6084	2	775	PSASDQSTWYLDSTLTDNIKKTTHKFC GSPVVFSDVNSMYLSSTEPAAAEWAC LLRPLRGREPEGVWNLLSIVREMFKRDR SNAAPLEILTQCLTYEQITGWVYSVR TSASHSSASGHTGRSNGQSEVAHAACAS MCDEMVTLWRLAVLDPALSPORREL TQLRQWQLKVIENVKRGQHKKTLELRF GFRPAVEACVFNWEEAYPLPGVITYSGT DRKLALCWARALSRPGASRSGGLEESR DRPRP
5234	13285	A	6085	193	388	
5235	13286	A	6086	2	353	AAEDLSLALCEFDVAVLADFASPFHER HFHYEEHLERMKRRSSASVSDSSGFS ESADSLAYRNSFSFSDSEKLNSTPSTAL LSATVTPQKAKLGDTKLEAFIADLDKT LASM
5236	13287	A	6087	315	411	
5237	13288	A	6088	2	283	
5238	13289	A	6089	3	189	

5239	13290	A	609	1169	1335	NFASDDKFSLP*DYTTFKVNWPGAVAH A*NPSNLGGGGGQIT*GQEFETSLANMA
5240	13291	A	6090	1931	3137	KMEISSLKKEINMEPNHSITMFKKAKTK AKKKPRKRSDDSGGYNLSDIQSPSTGL LKSCKTNSVESLPELLTSDSEGSYAGVGS PRDLQSPDFTTGFHSDKIEAKVKPYVNG TSPVYSREDLKPWKESPKLISAPQIPSN RIDTTSSASWVAGSFPSPVPPVDLRTIM EIEESROKCGATPKSHLGTKVSHGVKLS QKQKMIALLTKDNNSGLSNMOTVICP SDAP*TVNE*GSSLHSVSSKSFRDPLLEE KKSVTSHSSGDHVKKVSFKGIENSQAPKI VRCSTHTGTPGEGNHISDLPLLDSPNPWL SSSVITPSMVAPVPTASIVGRGTSKEAA LIRSREKPLALVQIEEHAIQDLLVFYEAFG NPEEFVIVERTPOGLFVPMWNKHC
5241	13292	A	6091	336	410	
5242	13293	A	6092	40	921	TEVPGVHSENDKNQKKIRKLDPKKKQ VDTVQIIQGSKKSSFLIFFPSLIILTEVL QVGNVVAQELSIQELFWRTASQSQVTE PTAGLCLLNPGQEEMRALRGRRKPLLI PSKQDLEWTSKLQQTCS*GF*R*KEN* QTERTSTPKPHLVGSSGGQGNQAGEGNK GYVPVRKRGSQIVPVC*HDCISRKPHCLN PK/YLS**ATAAKSQDTK/FNVQKSQAF LYTNKNQTDQSIMSELPFTIASKRIKYL NPTYKGCEGLQGLQTLTIAQRNKTEPNK WKNPVMGEEPM
5243	13294	A	6093	1	1960	MPPHSEQPHSPSTRQKRKVLPFVRQCPSP VIQAPKAKMDTFDGRKKQFTRFLFLPSM DQLGQGRFSMQTLSEFALAVYRKDSPLV ACQVQALGNLEPSSVEAHVSSHGIAJDR KGWHVLSFSIQPGDCFPKALVEDSPDR ARRQSSKEEGWCDRRLKFKHSSKGA AAIVVSKKYESPFGVCFESLNNPRLT SRREKTISSSKRCRQCHAEETTIVFWAK ESQTEBQTRGAGQRRMGMIICKACSM LPAERQDLRPTSLVISHGVSVKDRREHC QCPNYYPPLRNMSPLEHSIKICGGKKPQ NDSQRITITTKVIVNQDFKQPDDELQSG SRKETSEASLVTLWELVTAGQTPPLVTP RQTGSGVDLQQTPTDLQLRVLTIRRKTN KQKGHPKPHLYVTIHKDQRTLHPKSTY TFFSAPHPTYSKIDHIVGSKALLSKCKRT EITNCLSDHSAIKLELRIKKLTQNRSTTW KLNNLLNDYVWYKEMKAEIKMIFETN ENKDTTYQNLWDTPKAMYSKGKFMALN AHRKQQRSKIDTLISQLTELEKQEQTHS KASRRQETTKIRAELEKETQKTLQKINE SRSWFEKINKIDTLARLIKKKREKNQI DTIKKIKVISPPPOKYKLLFILFGTGQIN
5244	13295	A	6094	275	1839	CPSVGFSLQAGVVFQCKLLTAKDF*QQT QGFSQ/RLSQLHTHGHRAKQKKAISKNE FTIMGQISEATSALFGEKESKEATLRGEG ARNRDDRVDNSNRLQPPQDGDGEGQKV PVKYSAGDTQANRVWSGLQQTPTDLQL RVLTVRRKTNKQKGHPHQNPICISASSK TKIEQITIREYHKNLYANKLENLEEMDK FLDTYTLPRLNQEEVESLNRPTGSKIEAIL NSLPTKSPGPDFAEYFYQRYKEELRIK YLGHLTRDVKDLFKENYKPLLEIKGH KQMEHSMMLDRKNQYCENGHTAQEL EKTALKFIWNQKRAHIAKTILSQKNKAG GILLPDKFLYYKATVTKTAWRYQRNDI DQWNRTEPPEIPIHYNHIFDKPDKNEK WGKDPFLNKWYENWLAICRKLKLDSEF LTPYTKINSRWIKDLNRPKTIKTILENL GNTIQDIGMGKDFMTKTPKAMATKAKV GKWDLIKLSFCTAKETTRVNRQPTIEW

					EKIFAIYPSDKGLISRI
5245	13296	A	6095	78	1986
					EKTKSASDWCT*K*RGDGTKLENTLQDI IQDNFNPNGRQANIQOEIQMPORYSSRR ATPRHIVRFTKVMMKEKILRAAREKEIQ TTISEYYKHL YANKLENLEEMGKLLDTY TLPRQNOEEVESLNRPIAGSEIEAIHNSLPT KKSPPGDGFTAKFYQRHKEELVPFLLKQ FQSMKEVILPNSFYEAASHLPKPGRDTT EKENFTPISLMIIDAKILNKILANRIOQH KLIHQDQVGFISGMQGWFNHKSXNVH HINRTKDRNHMISVDAEKA FNKIQQPF MLKTLNLKLGQLTRDVKDPFKENYKPLL NEIKEDTNK WGNIPYSWGRNIVEIALP KVSLEERQHDQTHVQSQLEKLDLLEQE YNKLTMMQALAEKCMQLEAKLHEEEQ ERKRMQAKAAEHPRCLYLAAIFSALKN LQDKIRRLERLQAEESVKTLSRETIEYK KVLDEQIQERENSKNEESKHQELTSOL LAAENKCNLLEKQLEYMRNMKHAEME RTSVLEKQTPLLIPRQGRSVDLQQTPTD LQLRVLTVRRKTNKQGHQHPQNPICMSP SSKTKEERSSTPTTERS WTENDFDELREE GFRRSNYSELKEELQTHGKEVKNLEKKI RRMAN
5246	13297	A	6096	870	1860
					TRKSRNRG*IPGHIHPPTKQEEAESLNR PITGSEIEAIHNSLPTKKSPGDGFTAKFY QRYKEELVPFLLKLFQSEIEEILPNSFY ASHLPKPRDRTTKKENFRPISPMNIDAK TLNKTLANRIOQHKKLIHHDQVGI/H NARLVQHMQINKRNPAK*NRQKPHD YLNRCRKL*QNSTALHAKTSQ*ISVGSS GQGNQAGEGNKGYSIRKRGQMSLFAE DVIVYLENPISVDQNLKLSNFKVSQGY KINVLNSQAFLYTNNRQTESQIMSEVPFT IASKRIKYLGLQLTRDVKDLFKENYKPLL KEIKEDTTFFAHG
5247	13298	A	6097	453	545
5248	13299	A	6098	1	235
5249	13300	A	6099	3	706
5250	13301	A	61	1	1194
5251	13302	A	610	24	452
					APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSPGNLSSASAIMGN PKVKAHGKVLVSLGDAIHLDDLKGTIF AQLSELHCDKLHVDPENFKLLGNVLTV LAHFHGKEFTPEVQASWQKMTGVAS LSSRYH
5252	13303	A	6100	368	798
					LSYIYMHPIQ/RAPRFIKQALRDSORDLD SHNIMGDFNTPSLDRPTRQKVNKDIQ ELNSVLHQVDLIDYRTFHPKSTEYTFFS APHRTYSKIDHIVGSKALLSKCKRGEIIT KIKLELRICKQTQNRSTTWKLNLLLND Y

5253	13304	A	6101	1	666	
5254	13305	A	6102	412	681	GDIIKCSQPLNIHFHYVFKMR*GSSIRPG RGEIRCFSPAARLLTAHQWQFWLWAI FQQVALLPHAGGADHVLFPSPVSKAT EKIVG
5255	13306	A	6103	489	585	
5256	13307	A	6104	1	1474	MDMLDKGMIQVPVESLECEHPVQEPV LPSELSEKQEPWNPQSLDEPSFATYM ACSMPLAERQDLRPTSLVISHGVSVKDR REHQCPNYYPLRNMSPLEHSIKICGGK KPQNDQSQRITITTKVIVNQDFKQDDTEL SQGSRKETSEASLVTLWELVTAQTQFQ DDRMGTAPVYSSQRERRRRRVISACPT PPLVTPRQTGSGVDLQQTPIDLQLRVLT RRKTINKQKGHPKPHLYVTIHKDQRTLH PKSTEYITFSAPHPTYSKIDHIVGSKALLS CKCRTEIITNCLSDHSAIKLELRKIKLTQN RSTTWKLNLLNDYVWYVKEMKAEIK MFFEITNENKDTTYQNLWDTFKAMYSK FMALNAHKRRQQRSKIDTLISQLELEK QEQTHSKASRQETTKIRAELEKJETQKT LOKINESRSWFFEKINKIDRTLARLIKKK REKNQIDTIKIKIVSIPPPQKYKLLFILF GTGTQIN
5257	13308	A	6105	1	903	
5258	13309	A	6106	803	1184	
5259	13310	A	6107	1458	1568	TQTNLQEKNQTTQSKSGQRV*TDTSRKK TFMQPTDT
5260	13311	B	6108	24	2456	MGVSSGDLLKGLLHPRVRVNGEYVTKG QSVQEVVFAVGALAKATYDRLFRWLVS RINQTLDTKLPQFFIGVLDIAGFEIFEFP SEQLCINFINKEKLQOFFNQHFVLEQE EYKREGIDWVDFGLDQPCIDLEKKEC RLKPSRKIKTKKTKKRTASLILHAMICC RSLNSSKTKNTKCLNSINQRLKIWSLQK DLMCGTAGRCKTLHGTSQLNTAIHVVL ALAGSPKADDDTSIYMFQKHILYCIVD SECKSRDVLQSYFDLLGELMKFNVDAPK RFNKYINTDAKVFLKQNSLVDNSMLV RCVTLSLDRFENQVDMKAALLSIPGFVE RLCKLATRKVSESTGTASFLQEELEWYT WLDNALVLDALMRVANESEIINQVFW FEQHGLVSGAEKAPGTTIDQAPRIYRWS DLTRTQAQWQSAMTWSMSAFTETFLTE RDKQSKWSGIPQLLLKHTTSHLHSDFV EQQNILKPLLVIPIRQTGSGVDLQQTITDL QLRVLTVRRKTNKQKGHPHQNICMSPS SKTKEAKNLDKRLDEWLTRINSIEKTLN DLMELNMTARKLRDACTSFSSQDFQVE ERVSVIEDQNMENMKREEKFREKRIKRNK QSLQEIWDCKVRPNRLIGVPESDGGENG TKLENTLQDIQENFPNLRQVNIQIEIQ RTPQRYSSRRGTPIHJVRFTKVEIKEIL RAAREKGRVTHKGPIRLTAVLLAETLQ ARREWGPINFILKEKNFQRPVSPAKLSF ISEGEVKSFTDKQMLRDFVTRPALQEL LKEALNMERNNRYQLLQKHAKL*
5261	13312	A	6109	82	1208	LVEGKLTNRKNHITKTPSVHIIHQPKC GREMWGQSPHITESLLGHHLVELWEEGH CPLDPRMVDPPACTMYLEKQTLNASL /WKAARSQVPQGGGKTKKSETIEQATI REYYNKHLYANKLENLETEKFLDITYTL PRLNQEEVESLNRRTIGSKIEAINSLPTK KSPGRDGTAEFYQGYKEELVPLFLKLF QSIEKEGILPNSFYEASILIAKPGRDATT TKNFRITSLMNIDAKILNKILENQIQHIK KLIIHNVGVGPIPMQGWFINHKSINVIH IKRTKNKNHMIISIDAGKAFDKIQQPFML KTLNKLGDGMYLKIRAIYDKPTANILN

						GQKLEAFPLKTGTRQGCHSYSTLTPIQH SV
5262	13313	A	611	3	552	HSILFGTSEVINKLRSPDAMGHI/TPEEDK ATTSLWGKVNVEDAGGEILGRLLVVVP WTQRRFDSFGNLSASAIMGNPKVKAH GKKVLTSI GRCHKSTWDDLKG/TPFAQA *SELHCQACMWDPEELSSFLGKCCWV TRFWAIPFSAKEFHPWRLOQFPGKSRRW QKMVTGVVASALVPSRYH
5263	13314	A	6110	1261	2396	LNALYFLLLPDCPGQN**TASKNKEEK REESNRNCNK**SNITTNPTHTQTTIREYY KHLVANKLENLEEMDNFLDTYTLPRLN QEEVESLNRPTTGSEMEAIINSLPTKKSPG PDGFTADFYQSVGSSGQGNQAGEGNKG HSIRKRGSIQVPCV*HDCISRKPHRLSPK SP
5264	13315	A	6111	1	819	MCHSAIPTVLQPPVLVVPRTGQSQVDLQ QTPTDLQRLVLTVRKTKKKQGHPHQ PICMSPSSKTKATFEDSVWHFAERIIPDP NVIKLRKEELTLNIRQYYVLCEHRKDK YQALCNIGSITIGQAIIFCQTRNNAKWL TVEMIQDGHQVSLLSGELITVEQRAFFTQ RFRDCKETVLITVNVCGRIDVQKVITV VNFDPVKQGEEDPYETYLQRIQRTGRF GKKRLAFNMIEVDELPSLMKIQD/HFNS IKQLHAEDMDEIEKIDY
5265	13316	A	6112	1	1068	
5266	13317	A	6113	3	655	LLSNDQRCISFNKTRKASATRVYIVLD NSGFELVTDILADFLLSSELATEVHFYG KTIPWFVSDTTIHDFNWLEQVKHNSHK WMSKCGADWEEYIKMGKWVYHNIHFW PVPHEYCAMQVA/HDLYAELOKAHLIL FKGDLNRYRKLTDGRKWEFSVPFHQALN GFHPAPLCTIRTI.KAEIQVGLQFGQGEQL LASEPSWWTGKYGIFQYDGPL
5267	13318	A	6114	3	225	GACGRPPPPFPRPLPRGAPPMAAAPPSP PASAPGAAPTFFPSLGPAPWHPALFTGIN LTCFSKEREKEAQSXY
5268	13319	A	6115	2	624	
5269	13320	A	6116	2	594	NRGSCHRGLKFEGAFKYKMGQIEIDQV EQQLYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDFRVAIAGSPVTLWIF YDTGYTERYMGHPDQNEQGYVLSVA MQAEKFPSEPNRLLLHGFEDENVHFAH TSILLSFLVRAGQVYDLQSYQERHSIRV PESGHEHYELHLLHYLQENLGSRIAALKV I
5270	13321	A	6117	4	310	
5271	13322	A	6118	1	601	LQKWSLEYIQEAGCRTVPVEVGSRYTD EFSWQTLMTYNFHSKYIVNEPRDVGYL AQHQLFDQIPELKDQISIDPYCSLGDGEE EEITITNAWFGPQGTISPLHQDPQQNVLVQ VMGRKYIRLYSPQESGALYPHDTHLLHN TSQVDVENPDLEKPPKFAKAPFLSCILSP GEILFIPVKYWHYVRALDISFSVSFWWS
5272	13323	A	6119	3	306	EIIAFS/DRAED/FRKLGCVELGVSVDSQF THLAWINTPRKEGGLGPLNIFLADVTR RLSEYDGLKTDDEGIAYVCPAGWKPGS

						DTIKPNVDDSKKEYFSKHN
5273	13324	A	612	251	488	GGWITRSGDRDHGP*HGE/IPVY*KKLAG RGGGRKSKQLLGRRLQENGMMNSGGRAC SEPRSHHCTPAWVTERLLKKKKK
5274	13325	A	6120	1	774	PTRTKGFAGQGS LGAENAGPRVVIVRAS RGLPTQLSVMASGNARIGKAPDFKATA VVDGAFKEVKLS DYKGKYVVFYPLE LHFCGAPTEHAFSPNCRGTSRKQLG*SAG ASRWDSHFTHLAWINTPRKRGEALGP L/NIPPALLNGEPERLV*GIYGRG*KTID*G AFAYKGASL FIRLKGKCPFAKITLLIDL/P VGTLP LDEGFCGLVQGLSQVHKTSHGG KFVPA/GWKALPVATD*APTWM TARKY FSKHN
5275	13326	A	6121	3	306	KNWPPPRFF/YKGPFPSSSSSSSSSSSS PLTPFFSSSPGVCLPKGSSSSSPPKPKPG RPFSSSQGGKPPFPKPNFPKNSPTPG GAPLKPFWKCF
5276	13327	A	6122	1	200	PPHNVPRRWSANLYLTPSNMVLITAIL IGVCVFILAIIGILHWQEKADDERKQF AHRHFIDAM
5277	13328	A	6123	2	297	
5278	13329	A	6124	1	211	VSPHVLIRRQSSRHLGSLYLQAPFV*MA GCLLETGSHV*TYKDLHVITTRHLPKLW KTRSTLNFQVARS
5279	13330	A	6125	1386	2151	DYLCEKHQYRQLCGYLQPCQGS PCVWT PRAGSGRAALRTGMAVLARAAGQLRA RLPPQAQRARAAAGALRERGLCAPRPP APGAGRQSPQSGELRVFSTTSSTCRSC WSARPWGSRRGRAVPQRRRNATGTGSP RPLRLRPAA SPRRGAA SERPNWDP PRTARSRALNLRSSSKVNATLV PCHKET EAORG VWTGETIPVRTC FGLIQQSHS MEV AEWTDKAVNHIWKAPRNTALKMT QTYNDPAD
5280	13331	A	6126	1	1337	MRNKAVGQARAPPAQLAGWAAPFPKLL DGRPQVFPMPQPVAGCTATGPREKL GPRPRGRVAASVQRLMNMNLS PVGM EQLTSSSVSNALPVSGSHLGLAASP THSAIPAPGILSYLADRPPPYIHPNSIN VDGNTALSITNPSALDPYQSGNNGV LEPGIVSIDRSVYNTHGAQSLHPSD GHEVALDTAITMENVSRVTSPISTD GMAEELTMDGVAG EHSQIPNGSR SHEPLSDVS VSNLAADA VGHGG VIPMHGNGLELPVVMETDHIAS RVNGMSDALSADSIHTVAMSTNSG PRESSAVAPASHFSVHVFLEFSFIW VSPADAE TLGSELLGLTVYGSNDQ DPYVTLKDETEQYEREDFLIKPSD NLIVCGRAEQDQCNCLEV HGN YIAVGNMTPVIEVWDLDIVDSLEPV FTLGSKLKKKKKKKKVKKLNI

5281	13332	A	6127	1	2412	MKMNLSFVGMAQLTSSSVSNALPVSQS HLGLAASPITHAIPGLPVAFINLGPSSL SLPSALSMLPMGIGDRGVNCGLPERNY TLPPPPYPHLESSYFRITLPGILSYLADRP POYIHPSINVDGNTALISINNPALDPY QSNNGVGLPGLVSDSRSVNTHGAQSL HPSDGHVIALDTAITMENVSRTVSPISD GMAEELTMDGVAEGHSQPNGRSHEPL SVDSVSNLADAVGHGGVPMHNGNL ELPVVMTDHIASRVNMGSDALSDSIH TVAMSTNSVSVALSTSHNLASLESVSLH EVGLSLEPVAVSSITQEVAMGTGHVDVS SDLSFVSPSLQMEDSNSKENMATLFTI WCTLCDRAVPSDCPEHGPVIFVPDPIES RARLSLKPQLVLRQSIGVAEYGVWGTET IPVTRTCFGLIGQSHSMEVAEWTDKAV NHIWKIYHNGVLEFCIITDENEENWMM FVRKARNREONLVAYPHDQKIFCTSQ DIPPENELLFYYSRDYAAQOQVPEHPDVH LCNCGKECNSYTEFKAHLTSHHNLFT QGHSGSIGPSHSKERRKWKCSMCPQAFIS SKLHVYFMGHMOMKPHKCDSCSAFSD PSNLRTHLKHITGQKNYRCTLCDKSFTQ KAHLGVHMHVHTGEKHLKCDY/CVDK LFYGGSRDLQGRHVLHHTQERQIKCPK CDKLFLRTHLHKILHNSHEGKRDYVC EKCTKAYLTKYHLTRHLKTCKOPTSSF VQAPEEEEEEDSEEDLADSVGTEDCRI NSAVVSADESLSAHK
5282	13333	A	6128	1	1767	MQALIPLESQSGMTQTSGVSTETGDVVK DMGVNNQSKSGRCPCWKDHEAAPWISEK PKKRNQEGKSKFKNNYSTQPARMERK EEILNPPFEGKDDGTGSIPHSKEIGFTFP KMHDSSFSHTPDPTVEAVDRKGGNFQ VNFVELGTLGENKJSTVKASTVTEPPAK VTDVSCQEQIQAGAGFVPSVSEENKTD ANRYTAVADKPSERSNDGKSSGSAACE KLPTPTQVVKEGDSFPDTLAKNGQEJAP AQISKSLMVDNYTKDGVFGQERPKGPSA VVPSTSTGGVALPITTAIETVNIHGDHSL KNKAELADSMKNEAGIDEGHVIGESV HSGASKHSVEKVTELAKGHLLPG/CASR RPEPTRRGQSPR/THADRGNFPAHPVN EEKETKEGSAVQIPDLLEDKAQKLSFC EDQNAQDRNSKSGSDSLNKKVDLTLSP KSENDKLEISLACKITELESVSLPTEIQ SDFLHSKVEAPPSEVADTLVIMTASKGV RLPEPKDKILETPQKMTESKTPGEGK KEDKSRMAEPMKGYMRPTKSRGLTPLL PKSTIQEQERHKQLKSAGMNLPGWNV ACGF
5283	13334	A	6129	893	3822	GKGNHATVNNLSFLQRQVGSVLVHPVV G/HGNQRKSIHVDSLEPQRDLGREAWDI ESTPIMMKKKKKPKQKRYSQPRAGGP SDDDNADKPKGHPFAADTKSGVLPSQ PTMTGTEYGLVSGENLKRECLVNSSAAR LVAEINFVSESLRPLYPSEAPKTAISSQS KLKRVEEESKSNKSVLQNKDKLLKQHE YKQPAPHLKTVPDKSQSVGPLNLKGPL AEVSAYNVETPLDIRLKEGCSFFLDQEV MGVV
5284	13335	A	613	5987	6461	GVNKSWNHWFHLGVREAEHAGVVRT PHIDLVLPRGMAACALGACSLGAVAL PGHPVAGGVSHGCSSTGTYRGERHRV GRMRQKNRLNPGGGGCGEPRSRHYTPA WATNEQNSVSKQNKTKQNKHRLVHW RKKWYLLFALKKYKMSLMLCRKS

5285	13336	A	6130	I	1965	MQALIPLESGSGMTQTSVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNQSKKKFNKNNYSTQPARMERK EELNPPFEGKDGDTGSIPIHKSKEIGFTF KMHDSFSHTPTDPTVEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQAAGFVPSVSEENKIDA ANRYTAVADKPSKRSNDGSKKVKNSS PEKHILENKIDATKIHVPMETTGDQIGIEV WPIWTKIEL/RFTCPRTPELINKSSPLEV LESAACEKLPTPTQVVKEGDSFPDTLA KNGQELAPAQISKSLMVDNYTKDGVPGQ ERPKGPSAVVSTSTGGVALPITTAIETV NIHGDHSLKNKAELADSMKNEAGIDEG HVIQESVSHSGASKHSVEKVTELAKGH LLPG/CASRRPEPTRRGQSPRR/T/HADR NPPAHPVNEEKETKEGSVAVQIPDLLED KAQKLSFCEQNAQDRNSKSDSLNKK VDLTLSPKSENDKLKEISLACKITELSV SLPTPEIQSDFLHSHKVEAPPSEVADTLVI MTASKGVRLPEPKDKILETPQKMTKEKSE SKTPGEGKEDKSRMAEPMKGYMRPTK SRGLTPLPKSTQEQERHKQLKSAGMN LPWGNVCACGF
5286	13337	A	6131	1632	2783	VILLSKSLIQENFFFFQSFALVAQAQV QWSNPCSLOPPPPGFNGFSCLLPSSWD YRRVPPCPAINFVFLVETGFHHVQAGL ELL.TSGDPPITASQASAGITGVSHHAQPAE DIANNVTLFFPLHLFL
5287	13338	A	6132	240	564	NGWEFKHGSPWPGGFFFFFETESRSV A/TRECSGVIPAHRLNCLPGSSDSPASAS QLTGTTGAHHHARLIFVFLVETGLRHLS QAGLELLNLIHQFVWNPQELGLQA
5288	13339	A	6133	I	1898	MAASGRGLCKAAVASPPFAWRDNTA RGGLKPEYDAVVIGAGHNLVAAAYLQ RLGVNTAVFERRHVIGGAATEIIPGFK FSRASVLLSLLRPQJYTDLELKKHGLRLH LRNPYSFTPMLEEGAGSKVPRCLLGLTD MAENQKQIAQFSQKDAQVFPKYEEFMH RLALAIDPLLDAAAPDMAAFQHGSLLQR MRSLSLTLKPLKAGRILGAQLPRYEVVL TAPITKVLDDQWFESEPLKATLDAVIG AMTSPHTPGSGYVLLHHVMGLEGMO GAWGYVQGGMGALSDAIASSATTHGAS IFTEKTVAKVQVNSEGCQGVVLEDGTE VRSKMVLSTNSPQITFLKLTQPEWLPFEE LERISQLDTRSPVTKINAVDRLPFLAA PNAPRGQPLPHIQCISHLNCEDTLLHQ AFEDAMDGLPSSHDLGSAKIHITPKDRKC IPGEKSEDEGRPVIELCIPSLDPLAPP CHVVSFLTQYMPYTLAGGKAWDEQERD AYADRVFDCIEVYAPGFKDSVVRDILT PPDLERIFGLPGGNIFHCAMSLDQLYFAR PVPLHSGYVAGPLQGLYLCGSGAHAPY SEILTSLTRVPIQHVHPQLRLWAVDLA PPQTGAGSLEGARIY
5289	13340	A	6134	163	513	CLLFFLTSPSHSVFGTVPVDCNRVYAPGF KDSVVGRDILTTPDLERIFGLPGGNIFHC AMSLDQLYFARPVPLHSGYRCPLOGLYL CGSGAHPGGVMRAAGRNAAHVAFRD LKSM

5290	13341	B	6135	1	720	MGCKHWMTCGRARKEGKDDSYMOTQ WLHRAFAAPPETCPFFLRDHIQTRDLYI LGTFEKCVFVGGAEERVWREHQRQEPG LRAAFAGOLEFPAGVGLAGALGAAGQ PCWPRGNEGLSTRASGCGGCTGSSSSAS PPVLSISHQALAAFLRGRSRDLQRAMP EPPTSPMGSCAAGASPTSTTPCSKEPSPI HPRAEECECTARDWQAAPPAALVRDPL GEASWAPESGGDMESLYI*
5291	13342	A	6136	133	311	QLHADKVSRAFATHA/GVFPVCDHGLFQP QPPPLKRSSCLSLWSSWDYRHAPHPAII CLLL
5292	13343	A	6137	1	1098	
5293	13344	A	6138	2	241	PPFRKRFSCGLSSSDYRCTPPRANFC ILVEMGFHHVGGAGLELLTSDDPPTLAS QSAGITGVSHHAGPHRFLINIY
5294	13345	A	6139	3	333	YFISSHFUSPHYVISFHLITFHLISFH/HIHF SSFHIFSSFHLFISFH/HIHLINSHLISF HFISFHLISYLSIFQF/HPHYFMSHLISF HLITSHHFINFHISF
5295	13346	A	614	180	345	GLSFHMLKKKVYKYMCICYMYICTHTHT HLI*MYINRPSLYDYQFLFYLSQLDSC
5296	13347	A	6140	3	137	GVSPCWPGWSRAPDLK*SAHLGLPKCW HYRRPIHDCGQAPHLHC
5297	13348	A	6141	967	1386	KKKIFIGHQLRWL*RIFFFFFETGSHS VPQAGVQWCDHGSQPPQSPWAQRSSNL SLPSSWDYRHLPPCLANFIFVFEMIGLT MWRPLVLNSGSPDLFASVSQ/SAGITGV SHRNW/WPMKIFFFQTASHSVAQAQVQ WCNLSGLQALPPAFMPFSCLLPQPPSSW DYRSLPCLANF/CFGLVETGVSPCWPG WSRTPDLR
5298	13349	A	6142	278	643	GRÖERGERESSRPLGGRKCO/HWLAVN AQKLLALQVEKAKVEVGAPALGILV VAGCSFAIRRYQKKSDSLKQPNPVL EA AVGVVPVEMSLPHASSSLTLVCLRRSLD PFLCFPLSLAKV
5299	13350	A	6143	18	479	QRTFCCKGWKGAAILDLNNFLCKLE QKGTDLULVIAMENYGLSGKKGVDP AVDILLAMSEKDIDLKFGVWDVDMVF ASFHVASNVHEIRKAHANWSKVPTCP ELGSYLPRTGETHSYFYISYSDQIQCKP LHYSYGRNVDIL
5300	13351	A	6144	3	282	RSPPAGSPPSPAPRPLPPPAAPPALPFP ASRPTFPPLPVSPLVLPSSRSLPAPALF SFFCIGVLGLLHTRLSIAAYIKAGAIMQ LYC

5301	13352	B	6145	26	2671	MAAPGAPAEYGVIRTVLGQQQLGQLDSS SLALPSEAKLKLAGSSGRGGQTVKSLRI QEQVQQTARKGRSSVGGNGLHRTSSV PEYVYNLHLVENDFVGGSPVPKTYDM LKAGTTATYEGRWGRGTAQYSSQKSVE ERSLRHLRRLRLEISPDSSPERAHYTHSDY QYSORSQAQHTLHHQESRRAALLVPFRY ARSEIVGVSAGTTSRQHEDTYHROVQ HGSVSDTVFDSIPANPALLYPRPPTSRS MGNLLEKENYLTAGLTVQOVRPLVPLQ PVTQNRASRSSWHQSSFTTRTLREAGP SVAVDSSGRRAHLTVQQAAGGSGNLL TERSTFTDSQLGNADMFTLRAVSML EADHMPSPRSAAATFIQHECPQKSEARK RVNQLRGILKLLQ LKVCNEDVQRAVC GALRNLFVEDNDNKLEVAELNGVPRLL QVLKQTRDLETKKQITDHTVNLRSNG WPGAVAHACNPSTLGGQGRITRSQVR DQPDQHGLLWNLSSNDKLNLMITEAL LTLTENIHPFSGWPEGDYPKANGLLDFDI FYNVTGCLRNMSSAGADGRKAMRRCD GLIDS LVHYVRGTIADYQFDDKATENCV CILHNL SYQLEAELPEKYSQNIYQNRNI QTDNKSIGCPGSRSRKVKQYQDVMPMP EEKSNPKGVWVWLWHSIVIRMYLSLAKS VRNYTQEA SLGALQNLTAGSGMPMPTSV AQTVVQKESGLQHTRKMLHVGDPSVKK TAISLLRNLSRNLSLQNEIAKETLPDLVSH PDTVPSTDLLETTASACYTLNNIQNSYQ NARDLLNTGGIGQIMASAGDAYASNKA SKAASVLLYSLWAHTELHHAYKKAQFK KTDVFNSTRKAKAYHSLKD*
5302	13353	A	6146	2	355	FYFLRWSTLTAQAGVQWRDLGSPQPLP PRFKQFCSLLNSWDYRHAPPRANFL CF/LVETRFLHAGQAGLELLTSGDPPTLA SQSAGITGASHRNPVQSILREGLLETV QPPT
5303	13354	A	6147	3	277	FFLETEFRSTQSPRLCSGAISAHCNLQLP GPSHSPASASAAETTLCHHARLIFVFL VEMRFHHVQSGLELRQAICLPRPPKVL GPQA
5304	13355	A	6148	20	363	LHHFPKPCPAHFSACIHWQHPHTCACT QAHMCKPKH/THTHACTH/ICVLSGTHP WVHTGV CARSSSSS/PSSSSSSLRYTRQV HALLHTAQPQLKASEPTPAQLQPRQE GLTG
5305	13356	A	6149	3	301	STATWAGVQWCNLSLQPLPSGFKFFSC LSLPGSWDHRLPPCANFLYCFFLYEM GFHYVQAGLKLIT/SGLCASAPQASAG STGVNHRVRLGLLIYP
5306	13357	A	615	173	338	GLSFHLKKKVYKVMCYMYICTHTHTH LI*MYINRPSLYDYQFLFYLSQLDSC
5307	13358	A	6150	15	352	DSIFTLVCAEHINFLRAGQHWGCVIDL HYNKQAVTGDHSSYSAERSTPENGGR GTREQERRGGTWQRGGQ/QRPSIPDR QKNQGRGGGNPLSGRGVKAATIIILLI
5308	13359	A	6151	20	415	
5309	13360	A	6152	24	156	SSFVMELCPELVGSWSH*LQE*SRGPLR *RTHSSRYMVKRQE
5310	13361	A	6153	128	880	
5311	13362	A	6154	310	719	LRTYPTIRGPVREEKGWYQTESRSVAW AGVQWHCFTELRFGLVSLTSRMKPRTL AVSVPAKVARLEFVSSDVQVRGFHHV GPAGLELLTSSDLPVSAQMAGITGRH RAWPWEHVYMDVFLHKLQTEGNLLDL FFETGSCSVQAQAGMQCDHGSJLQCPGP ISWDPPALASQAGITSMSHINHPKLFY
5312	13363	A	6155	1	169	

5313	13364	A	6156	525	972	NHLGGFKQILMPRLHPMPKMSFLGVSA QLYFFFFETESHVSIVQAGVQWRDLGS LQPLPPGFKQFQSCSLSPSSWNYRHTLPRP ANFLYFLVETGFHCVAQAQGLKLLSSGNL PALASQASARTITGMSHJARLAVVFFKALL SSSRTRI
5314	13365	A	6157	300	500	DGLCSKQT*NGVPSITNPKITANQHOGK KQHPQGNRTAPSSSVSYMKRCELLPKG TGLEVVRESG
5315	13366	A	6158	1	1889	MOLLQGLLRVRKLLLVVCPVLLLPV LHPSSSEASCAYVLVTAVVWSEAVPLG AAALVPFAFLYFFFGVLRSEVAAEYFKN TTL.LLVGVICVAAAEVKWNLHKRIALR MVL.MAGAKPGM.LL.CFMCCT.TLL.SMW LSNTSTTAMVMPIVEAVLQELVSAEDEQ LVAGNSNTEEAEPISLDVKNSQPSLELIF VNEDRSNADLT.TLMHNENLNGVPSITNP IKTANQHOGKKQHPSQKQVLT.TPSPRK QKLNKRYRSHHDQMICKCLSLSISYSATI GOLTTIIGTSLIFLEHFNQYPAAEVVN FGTWPLFSFPLSLNMLVVSFWFMH.WLF LGCNFKETCSLKKKKTREQLSEKRIQ EEYEKGLDISYPMV.TGFFFILMTVL.WFT REPGVPGWDSFEKKGYRTDATVSVFL GFLFLIPAKKPCFGKKNDEGENQESLG TEPHITWKDFQKTMPEWIVLVGGGYAL ASGKSSGLSTWIGNQMLSSLPPWAV TLL.ACILVSIVTEFVSNPATITIFLPLCSLS ETMHNPL.YTL.PVTMCISFAVMLPVGNP PNAIVFSYGHQIKDMVKAGLGVNVIGL VUVMVAINTWGVSLFHLDTYP.AWAR VSNITDQA
5316	13367	A	6159	41	570	SLHDSTADSIRTCQGVISTLKAHYLRRT FQHILEAADGEDPSYKIEFWRNYSIMDA VDMIAIAWEEKPALMNSMWKKIWPEC VQAQRFQADNIAQLQKNIVTLARNVAF EEVAEAAVDQLQSHEEDLSNEELMRLE QELAVGEEEREDGPWALWQLTTRLISA ALSHFEAGL
5317	13368	A	616	363	412	
5318	13369	A	6160	3	367	HASAHAFQQLSCVSKLMRDVCGQPCFSP RGMV/LYLQWGRKRYSR/GNSSWQIEKEK VWRFSTAFCSVNEWKFAJILSMADHLK KCSYNVVEKREEAIPFCMCTVRELTK GRSLRSVLKPVL
5319	13370	A	6161	74	295	AEDKSQMLLDLRWSYIRTSSSADRSHA SGPRIAHWSTVDNRNRPYDNNLEAK EQLS*ICSICSRVFFKA
5320	13371	A	6162	32	342	
5321	13372	A	6163	184	556	
5322	13373	A	6164	251	1133	PNDKRLILFRTPWQCLSVRTVARRCT ALTPIASEEKVLVADKSGDVYSVLEPH GCGRLEGLHLCMLLDVAVSPDDRFLITA ARDEKMRVSWAAAPHSESFCGLGHTF VSRISVPHSARAILSSSGDGLRLWEY RSGRQPALLSPWPVCRSSVDPAQPKFA ASRIAFWCQENCVALLCDGTCGLHLPA GRPQTAVGVQAAAAGVPAFVGRGRGD PGAVGAPGLARKPPWCSYRHVGQDQWQ SVPESTVLKKYSGVLRGNWPMERLCR RRRQLSAVSYKAHVPTT
5323	13374	A	6165	1	391	APMAGCLSFYYLIQGGDDKGFSLYTRDG AGLYKEIKWADRPGNAAWNLAEGEFNA PYPMEVIFEDAFNGPKGGYVALDDISFSP VHCQNQTELLFSAVEASCNQEQLCNFY QDKKRPGWTRVKGKPNML

5324	13375	A	6166	3	1459	KLPPPPGECTFEQDECTFT/AGEKKPEQL AQEEGVEPTSYTGPKGDHITGVVVSSHL ASECPFLGNSDALLPKKICSLVLLT/SFL AASADSGTMLRLWGCLKSKJMSVGLV PSEISLLGLQMAAFLHMAFPLCOQCTPD MYLLLTVGNNRNRHGROKQKALLYWTF TTCRHACARNLNLSTTCKDKVGEFACKLS KIELLEATEKSIGPPEMHKYHCELKNLRE KEKQLEDLLATKISKYAKLGLILGMPT LEIGGKEGGGWGTGYWLRAEKEDGDYL CIEGSEGLNTEKIVPVQMERNISINICKD VHSETPAKGHQLORPKVDKSMKMRN OHKKAEENSKTOITSSPPDKSSPAREQT CMENEFDKLEVOFRRWAITNSPELKED VLTQCKEAKNELRLDKLLTRITSLEKS MNDLMEKNTGRELCEAYTINSRIDQV EERISEIEDQLNEIKQDDKIREKRVKRNK QSPKKYGTIL
5325	13376	A	6167	1	393	
5326	13377	A	6168	1	1137	
5327	13378	A	6169	1	1793	MAETA VINHKKRKNSPRIVQSNDLTEAA YLSLRDQKRM LYLFDVQIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDEKGYSEFP WFIKRCATAVGRQRTHADKERGAREKG GEKKAKAKKTSGRTRKRGGRERKKKGE QEGKDGQRNAQTKGEKRQPHKANTPPK TLQQRKEKKTGDSHRRKKKLFKESEKVL SQEWEHDFVIETMATGARPQLLFSAVEA SCNFEQDL CNFYQDKEGPGWTRVVKVP NM YRAGDHTTGLGYLLANTKFTS QPG YIGRLYGPSLPGNLQYCLRFHYAIVGFLK MSDTLAVYIFEENHVQEKIWSVLES PR GVWMQAEITFKKMPMTKVVFMSLCKSF WDCGLVALDDITIQLGSCSSSEKLPPPPG ECTFEQDECTFT/AGEKKPEQLAQEEGE TPTS YTGPKGDHITGVGYMYIEASHM VYQKARLLSRPLRGVSGKHCLTFFYH MYGGGTGLLSVYLKKEEDSESLWRR RGEQSIWSRLALIEYSCERQHIIIEAIG VSIRSDIAIDVVKFQARPCGEMEDTPQQ SSGYSED LNEIEY
5328	13379	A	617	540	820	KIGPOPGQHSKTL SL*TIKKKLARCGGTC LWSQLLGRRLWEDCL SAGS*GCCEL*SY HCTPAWVTERDLVSKTQKNRAITGKLLL DVL SLLIR
5329	13380	A	6170	2	392	RNKKQGYPAFHVSTFFYPK*KS GG YQA VKRWTKGVNLFQEILVPIHRKVHWSL VQYQLDESKTKRNSDNLLEWTHHSM KPHEIPQQLNGSDCGMFTCKYADYISRD KPITFTQVSEDP LHPFTCY
5330	13381	A	6171	2	386	MNLLVERNKKQGYPALHVFSTFFYPKL KSGGYQAVKRWTKGVNLFQEILVPIH RKVHWSLVVIDLRKKCLKYLD SMGQKG HRICEMVLGYLQDESKTKRNSDNLLE WTHHSMKPHEIPQQLNGE
5331	13382	A	6172	3	162	
5332	13383	A	6173	3	407	TRRADPLRTWRWHNLLVSAHSIVSGIW ALLC V WQTPDMLVEIETAWSLSGYLLV CFSAGYFIHDTVDIVASGQSASLLEYLV HHVMAMGAFFSGIFWSSFVGGVLTLL VEVSNIFLIRMMMKISNAQDHLL
5333	13384	A	6174	13	367	KYLFFFLKDHTKVGKRRMSRLHQNLGR GRTKSCLKLVAGANCRDQDDPSPNRQ QPRSATFRSPNRCH*IPQ*PYSACQPHPG SGGQFRSLRGLIVEYRSSERHISYRYAG LCEY

5334	13385	A	6175	3	413	AAJEEELCGRQAAARAEAVRGLRGRPGLR/ WPLPWHPPAPPAHGAPLARPGARARRSE KPPSEKPLRLRRSSPRAQEEGPGEPPEL ALLPPPPPPPTPATPTSSASNLDELGEORE RWETFQKRQKLTSKGCGRQAPARHL
5335	13386	A	6176	2	445	RPLPWHPPAPPAHGAPLARPGARARR/CE KPPSEKPLRLRRSSPRAQEEGPGEPPEL ALLPPPPPPPTPATPTSSASNLDELGEORE RWETFQKRQKLTSSEGAALKLLDTFEYQ GLVKHTGGCHGQAVRFEVWASADLHIF DCKYRNYI
5336	13387	A	6177	2	265	FLMESRSVTRLECSSTITAHNCNCLPVS DSAVSASQVAGITGMRHHAQLFVFLVE TGFHHVGGQGLHLL/NIVHILPRPPKVLG LQA
5337	13388	A	6178	1	394	WLVGPGFGFPEIESRPVAQAGVQWRNL GSLQPSKPKRPSFLNLPSSLDYRHTPPS LANFLYLVQMFGHHVGGQGLELLTSDP PTLASQSAEITGVSHRTQPRSAILLQSQSS LLPLRLTFISSVPVTE
5338	13389	A	6179	3	1306	HEISLGAICAVLLVMGLFATRCNREKDK TRSYNCRVAESTYQHHPKRPSPQIHKGD ITLVPTINGTLPIRSHHRSPPSSPTLERGG MGRSQSHNSHQSLNSLVTSNNHVPENFS LELTHATPAVEQVQSLLSMLHQQYQPR PSFRGNKYRSYRYALQDMDKFSKDS GRGDSEAGDSYDLGRDSPIDRLLEGF SDLFLTDRIPAAAMLCTECRVLGHSD QCWMPLPSPSSDYRSNMFPGEFPPTQ QQQHHPQSLEDDAQAADSGEKKSFSTF GKDSPKMRTLGDITSSLLSEMSVFOR LLPSPDLTYSECSEVDRSNLSLRRKGPLP AKTVGPQGVAAWAASTHFQNPPTNCG PPLGTHSSVQSSKWLPAEIEIPENYEE DFDNVNLHNDGKHELMDSLEVAEIN KLLQDVRS
5339	13390	A	618	45	364	HHLHFLQRHKSQMRMTNTGLFEILTMLL TTMNLVDIFHEKADVDDMAYNADFDEY LNCTDRMDIKYVVQLLKEEQASHHH*D TECENA*ARWAARMTHIFLPMDDYN
5340	13391	A	6180	21	375	GVSTVGIORGSRLELWAPPEKYTPGRPS HPLWLWEGGGGSRREIDTTSSPHQVPV QSWEDDMGNTLNLPIFEELNGAKDV YTSL/GAAAGPLDCPAFKRRPHYGTTFH CAFTI
5341	13392	A	6181	3	471	HASAHASAHQVYVLKRPVYDEFRLRMG ELFECVLTASLAKYADPVTDLDDRGGV FRARLFRESCVHFQGCYVKDL SRLGRDL RKTILDNPSASYIHPENAEFPQSWFDD MAYTELLNLPIFEELSGA*DVYTSL/GAA AGPLACPAKRRPSQ
5342	13393	A	6182	1	1953	
5343	13394	A	6183	3	240	
5344	13395	A	6184	1	462	
5345	13396	B	6185	1	546	MVKPLSLQMVPLHSSLGNRGSLENKNT GVWESAASCCMAGCGGPADGICSEPLG HDQDGRAQSLLWAKLTRKDRFSQPR SIPSFDFLKAKALAKQRETIWEKVSPFQ AGVLPSPGSAITLSTLEQGAVGQKPPSV PCLMGLFVEHLTTWQLTSSVQASKSKRE DSPETVIAKQKAQSF*

5346	13397	A	6186	1	1846	MWSVPCLEKVDLAWTVLCLAVKIKM NKLRSQFRKKDYYVPEASRPHQWTD EEGVRTGKCSFPVKNWQRLFQSLAMR SLASACCHQPAVYSSHGTQAVHAKGCL QAHHRACCPCTSPAAAIIFAAATPDG PLLPSPRLVNLIEKSQALVRETLTSQASA PNSGRAGOPVTVCLS/GANAAWRPALEA PVDITGLWPETQAVSQCLG*EHSACLER KQKREKECGVTATFDASRTTFTREGSFR VTTATEQAEREIMKQMDAKKA/QTSV N*TAFFPRGRTSTTSTGRLWLMGRPASLA RGMVSWMAAAGLSAVITSWTRPSRRTS VCGVGVTARPATPSQAPLTLMTSAEL*R MPVGNITSMGTGSPRRPGPCQQAAPSCI TSGLVRLGT/SAPER/PPCGPTSEPLVIVA PASAGATAHGVTAAARSVAEVTSPA WCS APSTMRTPTTTCASASHGQLTGVAIFTL ARRPSAGLLGWWRTWLCMGPGQCS/SP LGPCITRGLQSPPRMAGRQGHGHPAQPP VEEAPSPACTASRLTGPAASRRPWRLLS VPGCLGSLPFRPVTCSAVQPGARSPEGES VLSVVALASGSGALLAGVKVGLCSIPQR APWKTGHL
5347	13398	A	6187	1	1542	
5348	13399	C	6188	539	1039	MPYPAPNPVVPVVGITPSQMVANXFAGTAG HPQAAHPHQSPSLVRQQTPPHYEASSAT TSPPFKPPAQHLNGSAAFNGVDDGRLAS ADRHTEVPTGTCPVDPFEAQWAALENK SKQRTNPSTNAPLHVTYRRRLKLNFKQ SLWLCILSIPDREGQVAVKGAKQTLCPD*
5349	13400	A	6189	303	2235	VKIKMNKLRSQFRKKDYYVPEASRPH QWQTDDEEGVRTGKCSFPVKYLGHVVD ESRGMHICEDAVKRLKATGKKA VKAVL WVSADGLRVDEKTKDLJVDQTIEKVSF CAPDRNFDRAFSYICRDGTTRRWICHCF MAVKDTGERLSHA VGCFAACLERKQK REKECGVTATFDASRTTFTREGSFRVTT ATEQAEREIMKQMDAKKAETDKIVV GSSVAPGNTAPSPSSPTSPSDATTSLEM NNPHAIIPRRHAPIELARQGSFRGFPALS QKMSPPKRLSLRINELPSTMQRKTD FPI KNAVPEVEGEAESISLCSQITNAFSTPED PFSSAPMTKPVTVVAPQSPITFQANGTDS AFHVLA KPAAHTALAPAMPVRETNPWA HAPDAANKIEAATCSGTEWQSSGAASP GLFQAGHRRTPSEADR WLEEVSKSVRA QQPOASAAPLQPVLP PPPPTAISQPASPF QGNALFTSQPVVGVVPALQPAFVPAQS YPVANGMPYPAPNPVVPVVGITPSQMVAN VFGTAGHPQAAHPHQSPSLVRQQTPPHY EASSATTSPPFKPPAQHLNGSAAFNGVD DGRLASADRHTEVPTGTCPVDPFEAQW AALENKSKQRINPSTNPSSDI.QKTFEI EL
5350	13401	A	619	112	322	NSLIAGYILVYVKTPRTQKEKSLKVLST YIKVAKYKV*ILKSITFLFTTKEYSKINIK MPFTTPTFTPN

5351	13402	A	6190	795	2728	GLSNFFRGRVPQVPLLFQKILYIYHRLVY WWASNPTPHLGOAVKMKMLKRSFR RKKD VVYPEASRPHQWOTDEECARTGK CSFPANDLGHAEFFESRGMHICEDAVKR LKATGKAVKAVLWVSADGLRVVDEK TKDLVDQTEKVSFCAPDRNFDRAFSY ICRDGTASHGFCR/CFMAVK/DTQGERV EHMQ*ICA/AALFRARQKREKECGVT ATFDASRTTFTREGSFRVTTATEQAEREE IMKQMDAKKAETDKIVVGSSVAPGNT APSPSPSTPTSDATTSLEMMNPHAIRR HAPIEQARQGSFRGFPALSQKMSPFKR QLSLRINELPSTMQRKTDPIKNAVPEVE GEAESISSLSQITNAFSTPEDPFSSAPMT KPVTVVAPQSPITFQGTIEWGQSSGAASP LFQAGHRRTPSEADRWLEEVSKSVRAQ QPQASAAPLQPVLPQPPTAISQASPFQ GNAFLTQOPVPVGVVPAALQAFVPAQSY PVANGMPYPAPNVVVGITPSQMVANV FGTAGHPQAAHPHQSPSLVRQQTFFHYE ASSATTSPFFKPPAQHLNGSAAFNGVDD GRLASADRHTVEVPTGCPVDFEAQWA ALENKSQRTPNSPTNPFSSDLQKTFEIE L
5352	13403	A	6191	1	1825	MNKLRSQFRKKD VVYVPEASRPHQWOT DEESVRTGCKSPFKYGLGHVVEDESRG MHICEDAVKRLK AQRKFFKFGFKTGK KAVKAVLWVSADGLRVVDEKTKDLVD QTIEKVSFCAPDRNFDRAFSYICRDGTTR RWICHCFMAVKDTGERLSHAWGCAFAA CLERKQKREKECGTATFDASRTTFTRE RSFRVTTATEQAEREELIMKQMDAKKA ETDKIVVGSSVAPGNTAPSPSPSTPTSD ATTSLEMMNPHAIRRHIAPIEQARQGSF RGFPALSQKMSPFKRQLSLRINELP/SPT MQRKTDPIKNAVPEVEGEAEISSLSQ ITNALSPFEDPFSSAPMTKPVTVLAPQS FTFQGNIEWGHSSGAASPLGQAGHRR PSEADRWLEEVSKSVRAQQAAPL QPVLQPPPTAISQASFGNAFLTQOPV PVGVPFAHMQAPVVPVPAQSYPVANGMP YPAPNVVVGITPSQMVANVFGTAGHPQ AAHPHQSLVRQQTFFHYEASSATTSPF FKPPAQHLNGSAAFNGVDDGRLASADR HTEVPTGTCPVVPEAQWAALENKSKQ RTNPSPTNPFSSDLQKTFEIEL
5353	13404	A	6192	164	282	
5354	13405	A	6193	193	274	
5355	13406	A	6194	3	247	FFFFNRFIAALFKITIKWQKRPCSVSE WDKLWY/YTIEHNSALKRNLGSCPQKM RLKLSLLSKRRQSEKATYITATM
5356	13407	A	6196	57	361	GLTMDTQKDVPQPKQPPMIVICGECH/ TPENEIKSRDPIRRCRCGYRIMYKKRTK RLGRFLMARWNAGEFOREWPSPYTLGF GSLPHFWVCYSFSIFALQ
5357	13408	A	6197	2432	3682	NSLILFFFFRORSLSLTCESGVISAHHNL HLPSSSNS/ASAS*VAGITGMHRHAWPI CIFLVEVGRHVGAGLELLTSGDPPAPT SQSM*ATTSGLILLSKILFPFHSKVKFK* SCPS*KILKECNSVINEWFNSESSYTSKE KNMLVPAAC*E/ITM*VATNCDFTSLLR SENYPKLFHNETTSQKIHKKIKISRPATS GQWULFSLVWWRARKG*GILMHHNGILY *TIC*IKLHRLP*GMDYPNQPD/MKSGWD KRMSTHTL*F*GKEIVDFONQNKLSLTL YLSVQE**IEFFFRDLKYNKPGSTKSL VSP/HSLTLFFFFFEARSHSASAGQVOW GNIGSLQAPPGGLKRSSVLSLSSWDYRR VPPHPANFICPCR/GWGFVSPCCPGSSG

						TPVLKWAHLSPNC
5358	13409	A	6198	1	632	KYRODLTVPPGYCTGEQQAGGRPGETEP WLRFPALLPSIDFLCASSGAVLPVRTQ DPFLPYPPRACPGQAASSAITSRCPPEV KEAGWGSPOGLARHALSHVPPPARVVL VLRERWHFCGDRVLLGSRALRERHLG LMGYQL/PGEWPWPGPWRILTPSLRVT CRPLLSPQLPFEELSQRG/CPQLKSYLR QKLAQLGLRWGPEGG
5359	13410	A	6199	2	313	EVRVYDLTQYEHCPDDVLVLGTDLWD VTDDCEVAATVDRVLSAYEPNDHSRYT ALAQALVLGARGTPARDRGWRLPNKLL GSGDDISVFVNPGRARQLLLRG
5360	13411	A	62	994	1108	
5361	13412	B	620	180	372	MAKDAGLIEANGELKVFIDQNLSPGKGV VSLVAVHPSTVNLGKQLLPKTFGQSNV NIAQQVIX*
5362	13413	A	6200	401	531	
5363	13414	A	6201	1	864	
5364	13415	A	6202	9	811	YIVTILRQLGTRGTPGRFIYALNEPTID YGFQRLQKVIPIRHPQDPERLPKEVILKRA ADLVEALYGMPHNNQEIILKRAADIAEA LYSVPRNHNQLPALANTSVHAGMMGV NSFSGQLAVNVSEASQATNDQGFTRNSSS VSPHGYVPSITPQQTNYNSVTTSMNGY GSAAMSNLGGSPTFLNGSAANSPIAIVP SSPTMASSTSLPNSCSSSSGIESFSPANMV SAVKQSAFAPVVRPQTSPPPTCTSTNG NSLQAISGMIVPPM
5365	13416	A	6203	299	826	LEGHCNLSLQISASLGKFRFSCLTSPS SWDSRNTPPCPANFC/EFLVENGHHVVG QAGLKLLTSSHPPSMASQAGITGMSHQ AWPTFPVLINFNLSMKCMRCMPATHLG QCPSREYKIHSCSALEEQAHHEPDVG VTISIRKCPVPNALWKELVPGAQGHGP HLEPEGLG
5366	13417	A	6204	1161	2627	RSDATNWGLSHLCFWFWFLRLSLFSLF LPRLECNVTISAHCNLFCLLGSSNSPVSA SLVAGITGTRIHAQL/LLYFFFFLVKTRF HHVDQADLELLTSGDPPTSASQAGITG VSHCAR/LSHLCFLPCLLFY/CYFITYVML LCY*WSLFLVAQVGQVHDLSSLQPLPP GFK*FSCLSLLSWEYRSPPHANFFFFF FLRR/RSRFVAQVGQVWCNLDLQPPPPS FKHFSASACRVAGITVACHHAWLIF/IFL YF**RQGFITLARLVLS**PRDPPPSASQS AETGVSHHAWPILFIYLRQSL/DSVAQA GVQWYNLGSQPPPPGFKQFCSLSFLSS WDYRRVPPCPANFLCF**RQDFTMLARL VSIS*PHDLPASASQSAEITGVSHRAWPIF CIFI/CFFEMESRSVAQAGVQWRDLGSL QAPPPGFPTFSCLSLSSWDYRCPPPRPA NFCIFSRDGVSPWSLSDLVICLPRPPKV LGLQA

5367	13418	A	6205	24	617	DPVSTKNTQISHMWWCTPVVPATQEA AREFLENFLSPSTGECSSLFFFFFLSQ GSHSVTQAGVQWCDHGSLOQPPIGRKP SSPCLLSSWDNH/RPANFFYKTTVKSPE E/FLQLAVVGCACARVYSAFQTEKQ SSSVGLHRSSFEISAFSHFPI*VFVPWSP LYQEFTLSFPSSSIPHCSTSPSPND
5368	13419	A	6206	239	1789	ATAPGQIFFFFLRWLSLTLSPRLECSDAI MAHCNLKLLGSRNPPTS*VAKDYST HQAALWLSYFFFIETGFRHVAKAGLKLL TSSDPPAPASQAGIKRVHHVWPSFSY VNHKLFSGRLRALSYLKL*QMQLFFNL SILSHDFVAVPSCDHLSRSPETCH**CSV THLEGLQVHF*L*DVIPVLQGVLSNSSS SFLAESQ*DNLILSREWGSHSNLSYSKVI M*HILATSSCDTELASASV*VLS*PL*LR LSR*SF*ITLWLLFRDRIIQLFLKRWWS L/DSVTQAGVQW/RNHGSLQPTPLGLGS DTESEFF*ARVSLCHPGLQVWCNHSGL QASNS*AOVILP*LPN*LRQAQTIMPG* FCF*ILVEMGLAMMPSLVSN*AO/CNH PVLASQSSGITGMRHCARLGRES*FDPLH *TVPCICNFFFLRRSFALVAQAGVQWR DLSSLQPLPLGFR*FSCLSLSSWDYGHF SLRSANF/CVFLVEMGVSPCWGTWS*TP DLR
5369	13420	A	6207	2	208	LEHALRPSSKMLLKCSQGGTPEPPNRI KRASSLNLNKSVEDPTQHGQVFLSA ALSAPAWTSPH
5370	13421	A	6208	1	419	SAFSVAVTKKLPGTGAACPIKFTKILMNE GGHYNASSGKFRICGVLIYYFHLHITL GNKDLAIGLAGRPTASQPLMPNTGN HDVGSGLTILALKQODEVWLQIFYSEQN GLFYDPYWTDLFTGLIYADQDDPNEV
5371	13422	A	6209	756	966	
5372	13423	A	621	39	460	GVYLKLSINTVGDKEKVRHRHPITQOL QCGIQHNLWVWTAASEIRSHLSPSSRF RRFKSIFCHVTRSGKSMQLMFTPEKKN DFSGCPVRPRGRGRGEGAVRSAGRRG*A RAGAGPGGPRGRGVPALGRVAPGLVFN
5373	13424	A	6210	24	365	PTEY/ENL/FPCKEAF/VVEEWVKETLAV L/WPAKYYPFVTPIERILMEEGKAFFPSR STAKQKLDGNPVSPTPVIGLSPTPNKEE KQDPWPLEPTGHLDGARDTAGPSWLH HRF
5374	13425	A	6211	32	188	KIFFFFFLPPQFKILFKRPTGLRVPGKGR RALGGSPKGAKKAWPTRRLPSNGYLE GSSNGASTESPNFVPGKTLQPPGVELG RGRWTAQGGPSRFPALGA*KL
5375	13426	A	6212	122	339	EKGFWFCAGQGGKNLPGGNSLEPSASGL KEIFGLNLLNWE*RGGPKTPGNFVIWK KGGV*PLWPGWG*NPGL
5376	13427	C	6213	56	118	MKALPSSQSGPTSVNSPFF*
5377	13428	C	6214	345	410	
5378	13429	C	6215	7	438	
5379	13430	A	6216	2	80	
5380	13431	A	6217	3743	4059	GCAVEFFFFFLRWLSLPRLE/CSGTVA HCNHLHLLGSSSRAAASQVAGTIGMH HARLIFVFLVEMGFHHVSN*PQAIHPPQ RPFVLIIGRDRNRHLGLMEWSF
5381	13432	A	6218	3	402	DTMVHLTPVEKGAVTALWGKVNVDV GGEALGRLLVGYVPWQRFESFSDLP DAVMGNPKVKAHGKKVLGAFSDGLAH LDNLKGTATLSELHWDKLVDPD*NRL LGWGLD*MLAHKFGKKISPNQKGLG

5382	13433	C	6219	295	618	MARKCSVAFSGGPGCTWDNLKGTFAHT EVSLHCDKAAPWPEELSGSGWGNVAWS CVLGPFTFGKRISTPPVAGLPNQENWLA WCWLNALGPTSNHLSLAFLAQPISN*
5383	13434	A	622	138	320	GFFQGAQKKRVHPKGGPKSRF*KFFRA GPGGSIWNPHHLGGPGGPNCPWPGFQTP PNNPG
5384	13435	A	6220	2	337	IKKAL*HE*LREKKKSPIRTSQSSKAP*NL PRSSSSSSSSNNYQLL*AHKLOKVKEMG KLLETPLNLLSQVVAEPLNQPTSSKIET LIKPKYHPEKSYGHDEVTAKFSRA
5385	13436	A	6221	1	2349	
5386	13437	A	6222	2	1802	
5387	13438	A	6223	5175	5804	IANNKDALRKTWNPKFTLRSHDFGIRAL APHHPVLTASEDHILKMWNLQKTAP AKK*EYSTLTLEFYFK*HLSILLYSI
5388	13439	A	6224	3	115	HETDYHKKQFWQGEISGIVSTESQ*WGLG GGEVKVKWE
5389	13440	A	6225	2	28	TIADRELRYSEDEGRRRGE*REEEGEA ARRKRVAKQVGKRANEERKTEERWGD REGRRERSEEMEVSGKERGHATSGREE KENTG*GPRAEI
5390	13441	A	6226	1	236	RTRGRTRGSTHAFVRQLMQRNLDTGP MAGHDNQLQKENSTPDSSLFETSNEKH JSPENMSLKLTRNSNP*DLYEI
5391	13442	A	6227	3	178	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCLPVGKWIRCSAELGNRS LI
5392	13443	B	6228	1	1050	MVSISWPRDLPASASQAGITGLIGALVL SVGIYAVERQKYKLTESAFAPAIHILL GVVMFMVSGFVGLASLRDNLVLLQAFM YILGICLIMELIGGVVALTFRNQQLLRQ QVLSHTLGCADLSDGPGSGPVKMFMGV PVIPAQPELLASRLSLRGYGLVLSWLEP RYEKMISGMYLGEIYRNILIDFTKKGFLF RGQISETLKTRGIFETKFLSQIESDRLLAL QVRAILQQLGLNSTCDDSLVKTVCGVV SRRAAQLCGAGMAAVVDKIRENRGLDR LNVTVGVGDTLYKLHPHFSRIMHQTVE LSPKCNVSFLSEDGSGKGAALITAVGV RLRTEASS*
5393	13444	A	6229	3	250	SLCQPGWSAVASRLTASSISQFTFSCSL SFPSSWDYRRLPPRPAIFLYF**RRGFTVL GWSRSPDLVIRSRPPKVLGLQV
5394	13445	A	623	24	452	APSPDAMG/HSWGWKVNVEDAGGETLG RLLVVYPWTORFFDFSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHDDLKGTG AQLSELHCDKLHVDPENFKLGNVLVTY LAIHFGKEFTPEVQASWQKMYTVGASA LSSRYH
5395	13446	A	6230	135	466	GIDTILTLNQNSLKTRO*FTLIF/IFFFL RWSL/DSVAQAQGWWRDLGSLQAPPRG FTFPCSLSLPSSWDYRRLPRPANFFYF** RRGFTMLARMVSI*PRDLPAEFL
5396	13447	A	6231	593	1030	KCNSSSLNMNEFKNPFCKMKNSSLIPL GLSAIKVSNKTN*NMITI*ILWIFFFFFL WSL/DSVAQAQAGWCHLGLQAPPPFT PFCSLPLPSSWDYRHPRPANFFVFLVE RGFTVLARMVSI*PRDLPALASQSLWII L
5397	13448	C	6232	17	145	MHRDLFFNIQFISSVYTSLYLEKILCKF SIKTLGLIHTMW*
5398	13449	A	6233	82	377	IPGLKRSLSLHLSNSQSCATLPSYFFFFF FFFYLERDDLAMLRLPRLFSSPGLK*SLH LGFPEHWDYSHEPPSWLLFFIFNNRRVF LLNVKFYHMY

5399	13450	A	6234	281	1102	RMNIFPWGGWPLGHSQQATLTGPPGVC SPPNPRQNKGRPSLTWKSWACGMFSICF FCSVTKTFLKLGPHQRLKSSKTTYAT*DI LKRKVKLCCECRPSFLPFFTAWKPLRICW GVAEEGLSSLKEGMLVDSLQPRKPRRC LPHNRLSTAPTFDDPESIPDTVPVTLHPLCP KEQRPDPPELPSLGEAPWR*SLPFLHSTPC SLKECEATMKPHMCRSPCRGVLTPSATCA QWPDQGWGPVIFGAPFSDEVTVCSNQLL LPEAPACSGNQCLSWFKK
5400	13451	A	6235	2	260	LSLTQAGVQWCDHSSLOP*RLLSNWDH MHAPSCLAIYFF*ETTSYVIAQSYLKHG SSNPPTSASQGTAITGISHWARLDTSQFG H
5401	13452	A	6236	3	224	KSCPGTTPGNAGASLEDLWRRSAGRW GGTSKPCPLSAGCPLAFGP*ARLTGASM PPLSALNG*ERRKROQFL
5402	13453	A	6237	3	307	EAWRMSWGP*ER*PLPSP*GVCSSC/AP PLPVSAGLGEPRPDVEDMSSDSDSD WDGGSRPFTTISPRPPRLGCLLHAVFL ARW/PSLPSV*PRTPHCEH
5403	13454	A	6238	265	315	
5404	13455	A	6239	359	785	GNPSWSFPKAMDSPSLRELOQFLLEGTE C/GDPCPEAW/PGMSWGP*ER*PLPSP*G VCSSC/APPLPVSAGLGEPRPDVEDMSS SDSDSDWDGGSRLSPFLPHDLGLAVF SMLCCFWPVGIAAFLAQKVSCLCVGLG GDWA
5405	13456	A	624	60	548	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTRFFDSFGNLS SASAIMGNPKVKAHGKKVLTSLGRCHK STWDDLKGTFAQLSELHCGQACMWDP ENFKLLGNVLTVLVAIFFSKGFHPWR LAGFPQKDG*LGVAASALVPSRYH
5406	13457	A	6240	3	277	
5407	13458	A	6241	8	370	RLGEEKAATGVVHGLDCFFSPRAPTRP GSRLSQDPGCEI*NPSWSFPKAMDSPSL RELQOFLLEGTECEDPCPEAWAGIELGSP FKRDSLRCRVPEGFCSSCSPPLSVSAGLG GTKAP
5408	13459	A	6242	1	351	KTGSHSVAEAGVQWHHPSSL*POPGFK QSPHLRFKPCWDHRTTP*PCGNFEDLR* RWGSHHVAQAGLELLNSRDPASTSQSA RITAMSHRAPVSTFLSTSTSCPVLSTFH RSLI
5409	13460	A	6243	2	1036	SHTLSYLKLEVRMDLKAAMPDDHAR KILLSRNINYTIPEEEGSLFHANKFNAP IWLILNEAGLYWRAVGNSTFAIACLQRA LNLAPLQYQDVPVLNLANLIHYGLHLD ATKLLQLALAINSEPLDL*AGEMAYL ALKNMSGALEAFRQALKLTTCPECENSL KLIRCMQYFPFLYNITSSVCSGNCREKTL DNSHDKQKYFDNSQSLDAAEEEPSEGT DEDPAFSVENSGRDSDALRESTVDES HGSDEMENSDETKMSSEILALVDEFQQA WPLEGFGGALEMKGRRSRLTRNTGAE RSPGWKWPETLAMETAEVKMMKQONG LHSRSNV
5410	13461	A	6244	31	372	KRVRLGWVAHTYNPSTLGGQGRRT*TO EAL.TSLDNIVRTHLYKKFYLAQVWAC GQTCLEBGKEGYNNMNSVHTGGQGDPC GLLGLSLGRIFGCTWDSYRHAALAMIFG KLK
5411	13462	A	6245	816	929	DRVLLYCPGWNAV*TWLTVASASSAQ AILLPOPPCLA
5412	13463	A	6246	3	119	RRGLAVLPRVLVNSWPQVIFLPHAPKVL GL*AOQL

5413	13464	A	6247	2	285	RSVLCERNVSVSIWGNRLYLVEMYPI MKVEKWAGCCGSC*SQHFGRRLRGVDR LRSGVQGGQGHIDETPSLLKMQKWAGV WWWLPPVPAACL
5414	13465	A	6248	3	437	RPRRIFFLRWSFALVAQAGVQWHDLS POPPPPGFK*FLCLSLPSS*DYRNVPPHFA NRVFLVETGFGCHVGQAGF*LFTSGDLSA WASQSAGITGVSHLARQAASDFNSRDRR GSQIPNSQDANQNMEMLNKLLKDDFFVT CNT
5415	13466	A	6249	3	459	VLITANLIPAKQCFDCNLFSTFSSVTIEAF VFLCLLVTCVTCMNLFJFVHFHSRRVV FFLPILGAPCKMGILFMIQTFPLSLNIFQF GSKCIQYRILNFYAM*SVTLFLWPVYK YSFSTIISRPTLYNRSTLLPKRDRWKGAR QQITPQ
5416	13467	A	625	32	452	
5417	13468	A	6250	2	342	FKRQSLTLTPRPEYSGTHIAIYNKLLCSS NPPSSASQEAAGTGTGYHDT*LIF*FVETG SPYVAHAGLELPVSSNPPTSASQSGRIID MSHIRKTALLSGKEWTRPPTLL
5418	13469	A	6251	2	207	ARODPESTVAEAFPTPIPHCSMATLIGLP KVKLLRSLPOSFVSW*APGVRPGIEGL LLRMGTGRA
5419	13470	A	6252	1	90	RWLIPISPAL*EAEAGRLLETSLRPAWS T
5420	13471	A	6253	3	290	RQGFPLCNHKGTVTADLQPLPPGLK*ISH LSLLSSWNRYRCTPPHADF*FFVERRSHY VA*ACLELLCSSLPALISQRVGITGMST TPGICLL
5421	13472	A	6254	2	378	AGFTAHVIIILNHPGQ*SGAGYAPVLDCHT AHLACKHAELNEQIDRRSAKLEHGNP LNSGDAIIDDMDTVKPMCVESFHYSPF GRFADRDMRHTVAASVIMALKKAAV AGKGSNSGQKAHAK
5422	13473	A	6255	3	735	NASGTTLLEALDCILPPTRPIDKALRLPL QDVYKIGGIGTVPVGRVETGVLPKGMV VTFAFDNVTTVEV*SV*LSHEALS/EALPG DN/VGAFNVKNVSVKDVRRGNVAGDSK NDPP/QEAAAGFTAHHIILNHPGQINAGYA PVLDCHTAHLACKYAELEKEIDR/RSKGL LEDGPKFLKSGDAIIVDMVPGKPMCV SFSDYPPLGRFAVRDMRQTVAVGVKAV DKKAAAGAGKVTKSQAQKAHAK
5423	13474	A	6256	328	621	PVFLFCFLVFETESRSVAQAGVQWRDLG SLQALPPGSTFPFCSLSPGGWDYRCPPPC SANFFCIFSRRDRVSPC*PGWSQFPDLIMR RARPLFLKNRKL
5424	13475	A	6257	1	1245	
5425	13476	A	6258	1	248	FPDQPIHIVYVPSHLHHMLFELFKV*YFTI IEILPFKKGLTSYIFISFIIRHKEASISFPK NASSPPKRKKLYSQCLTKYM
5426	13477	A	6259	1	1456	
5427	13478	A	626	3	570	HSLSGTSEVINKLLVQTAMGHFTEEDKA TITSLWGKVNVEDAGGETLGRLLVVP WTQRFFDSFGNLSASAIMGNPKVAH GKKVLTSLGDAIKHLDDLKGTFAQLSEL HCKDLHVDPENFKLLG/NMLLVTVLGN PIFGKEFHPWRLQASWQKQMAEDGD CSWVPVPCSSRLPLSSLAHDDRGVFQG
5428	13479	C	6260	63	302	MIYKEKRESVSKEDLARATLVITINNIGS VARMCAVNEKINRVVFGNFRVNTLS MKLGICTGLLVKRSTKSIVSX1*

5429	13480	A	6261	1	2063	MGYGVTAFFIWAFSRVI.SSCPASKKNEL MI.TAMDICALSLRCATFDPGVAMGRRP ACCYRYCKNKPYPKSRFCRGVDAKIRI FDLGRKKAKVDEEPI.CGHMVSDEYEQL SSEALEAARICANKYMVKSCGKGDFHIR VRLHSFHVIRINKMLSACFAHASKCFQ NFGNMIMYKEKRESVSKEDLARATLVITIT NNIGSVARMCAVNEKINRVVFGNLR VNTLSMKLLAYALDYWSKGQLKALFLE HEVCVETVNDGQFHSVELVTNLQTLNL VVDKGTPKSLGKLOKQAPAGGINSPI.YL.G AFPWFGMDIGGTLVKLSYFEIDITAE QEEVESLKSIRKYI.TSNVAYGSTGRD VHLEIKDLTLFGRGNLHIFRPTQDLPTFIQ MGRDKNFSTI.QTVL.CATGGGAYKFKFD FRITGNLHLHKLDLCLVKGLLYDSVS FNGQAFCCYYPANASEPERCQKMPFNLD DPYPLLVNIGSGVILAVHSDKMFKRV TQTSILTGCSFBEALEMASKDSTQAD KLVRDIYQGDYERFGLPGWAVASSFGN MIYKEKRESVSKEDLARATLVITITNIGS VARMCAVNEKINRVVFGNLRVNTLS MKLLAYALDYWSKGQLKALFLEHEFGY NIGVIS/SS*DSHTGLSQLHIFEREVRRLSL* GFAHVPLALVCGHLPQW
5430	13481	A	6262	2	527	ILAVHSDKDNYKRVTGTSLOGGTFLGLCS LITGCSFEEALEMASKGDSTQADKLVR DIYQGDYERFGLPGWAVASSFGNMIYKE KRESVSKEDLARATLVITITNIGSVARM CAVNE*INRVVFGNLRVNTLSMKLLA YALDYWSKGQLKALFLEHEGYFGAVGA LGLPNFS
5431	13482	A	6263	2	186	RNGLRYRQPI*CLIAENFPGLARDIDIWK LETQGVPNRPNLKRSSQRMIVKLSKVK NREF
5432	13483	A	6264	3	180	EMGKGIDSLFNEIIAENFPGLARDIDIWK LETQGVPNRPNLKRSSQRMIVRLS*VKI
5433	13484	A	6265	3	474	GTDVGKVAKAHALSHKLCIKMTQVTT QWLEILQRLCLHDQLSVQHRGLVIAYNL LAADAELAKKLVESELEIILTVVGKQEP DEKKAENVHTARECLIKCMDYGFIPKVS *TATLRDAGSGPVLCRVLGWLGSFGESE HLGHAVTMKSQYKGT
5434	13485	A	6266	2	651	HSERGRQRKRVQKTDTVREKGRERER QTGREER*DRRQTO*DRQGRERDKDR DRDREKERDRQTEKETQREQRRTERN RQREGPSPVAIQCLFFHFLIFFSFLSCIS VCMIDVCMYVCMYVCMYVCMYVCMYR YLETGSHSVAQCSAVVRSGLHCISLRP GSSHSPASRVAGVTGACPTAPDSISYF QVRDGGFTTLARAGLELITSG
5435	13486	A	6267	56	901	EEIAVSILLPSALPAPATVGPVALVDGI GGWLCQCAQAREQPAE*QPGVLVPPGR ERQGGCSFRGQSLALI.SSADFTGPGYK PHLSKENL.VKIIQLDKKPOEVOVFTLGV SMRIKGRDCRISIRSPRVLPADRFMSMC FPTVKDSVQRTSASAPSSLMIAAEKCK HSSE*PTASGSPQOQHHTPGATGAPAPIQ VETQYTRLSSGLAQPRTLNSNESECSKFTL EPKAFVWNKAKFCLCYLVVSPQLIPRHH GSDMGSHTFEIPLLARKGCPQAVW
5436	13487	A	6268	132	378	YHSQRCCRGIIVISKSKARSRSSRMKQ YKNETVKDKGKYHKNVSMISL*KLEP VRPLEL.YYYYYYYYYYYYYYYYWQVLS
5437	13488	A	6269	3	397	QRDLTRHISLKSKTGVHLPENLNSARRI RNISGHRKSETEKESGL*PALRQILNASV RKVIWEQVJQLVS*TTRELRG*LSVYGD DVGVVEITLVVVHLCSSSTIVALICPSV SCI.CPCWCLLSLCSSF

5438	13489	A	627	62	281	SGVYFSFVQRLKTLTQHLLIFGLP*EYP TLTTFPEGEIISKHPFLTRKWOADEDVD RKHVWSKSDLWCWI
5439	13490	A	6270	2	250	KKARRSGVILAHCSLELPSSGSSFLSPA SSWDYRSAPPPPSNIFLLF*GRVLTMLP RLASNSWAQAILLRWPPKVLGLQV
5440	13491	A	6271	118	184	QKEKL*KMGAVLKSCLNASILIRNANKC NNRRKSYQPPSFMINIDAKVLNKI
5441	13492	A	6272	798	1096	KIMLEHLYSFEEAESRSVIQAGVQWRDL CSLQAPPPGFTPFSCLSLQSSWDYRHLPP HPTNFFCFRDEVSPPC*PGWRSRDPVVIC LPWPPKVLGLQA
5442	13493	A	6273	3	163	HASAHASGHASGGAEGKQAEVANODST EDLPAENGEAKTDDSPASDEAGENDA*S DEAGENDA
5443	13494	A	6274	3	330	INIRFYLQSIKASARSTQG*VSSCTKLQIF FFFFFEMESCSVTQAGVQWRNLSLOPL PPGFKQFCSCLSLPSS*DYRCPPRPANFCI FSRDSGSPC*PGWSQITPDLR
5444	13495	A	6275	167	362	SPYKSNLLEPSASRFKQFCLGPLNNW DYRLFPFPFGNGFVKIKNRVFPWFSLV* TPDSRGIP
5445	13496	A	6276	2	354	
5446	13497	A	6277	196	321	EQTAKCFGAHEQVKN*NN*GHHLLSPA HFSLQLKQFQDKMI
5447	13498	A	6278	1	923	MERWRDLRALVTGASGGIGAARALV QQGLKVVGCARTVGNIELAEBCKSAG YPGTLIPYRCDLSNEEDILSMFSAIRSOHS AVDICINNAGLARPDTLLSGSTGWKDM FNVNVLALSICTREAYQVHSGSMWTD GHIN*HQ*ACLATRVPLSVTHFYATK YAVTALTEGLRQELREAOITHIRATWOLR REEAAAGYQAATVKLGFCGLHPLPSTS PRPGKAQPLRPSLLAQCSFGVVETQFA FKLHDKDPEKAAATYEQMKCLKPEDVA EAVIYVLSTPAHQIQIDQMRPTQVTV
5448	13499	A	6279	28	311	AGVQWCRSSMQPPRRKLKSHFLSLPS SWDYGCTPIARLIFVETGFHVA*AGL KLLSLSNLPT*ASQSGITGMNRQAQPV SIFKSSSFG
5449	13500	A	628	1	395	
5450	13501	A	6280	1	304	
5451	13502	A	6281	62	299	LFFSPQTHPTQTAFLLSSVDLHTHCSYQM MLPESVAIVCSPKFQE*V*RAWFWVFQ GSREESLRKGLYSCLGLVCKIP
5452	13503	A	6282	110	276	QSETLSQKKKKKKKNW/YKCGGTHL/LI QATREAEAEALQGTGGRGCEPRLHHTP AW
5453	13504	A	6283	380	507	SMNPGSPVCVMLITRIPFCIAHAHLRCC MVL*LIHHIFIRLSIC
5454	13505	A	6284	14	235	DRVSLCHPGGGGSELRSCHCNLAWVT EQNFVSKQKEKKR*LLYT*VLPMSDGL HVAQDSFECSSQTQCKLS
5455	13506	A	6285	494	789	DHRFAPSHLADFYFFCRDGVVQ*NDLDS WQA*PPGLKDLHPSS*DHRFAPSHLAD YFFCRDGVVQAGLKLSSSNYPALASQS AGIIGVNHCTQPTLCLFKMMYLPNFCIH WVLHLPAKEIPEPVFKLPRVFTYFNCLS K
5456	13507	A	6286	3	107	HTQLCR*LIHTHTHTHTHTHTFYLFK** HSAC
5457	13508	A	6287	2	214	VDFFFFFFKLDRVVSQCCPSWKFSG*WL FTRTDHRTLPTQTPGKQSSCLSPSRWDY KCVPOHVSSLSPS
5458	13509	A	6288	3	213	LLKQNKH*SRILYPTKLSFMNREIKSFS DKHMLREFVTTTTPDLQEMQKGVNLNKT

						KGWHAPE*NLKA
5459	13510	A	6289	1120	1668	SGDALPPLFLFNFRVTKLRSSLWMHLG KQLPEPPNSRPTVETQKGS*DI/PPR*SP *ACFHNSLFFRFQ*PLI*QEHLTCLLPG DFFFFFF*DRVLPCYPGWESAKTMAHG SPNLL*SSHLSLSPSSWDHRRMPLCLAN* KKKKKQQRHGLMLPKLVNSWAGQVIV LLWPPKVLGLQG
5460	13511	A	629	27	121	APTDPAMGHLYED*ATTISLWCKVNVND DSG
5461	13512	A	6290	186	297	PNLG*LNPP*PRLKHFSCLGLPSSWNKKA IACHGAK
5462	13513	A	6291	59	132	
5463	13514	A	6292	1	335	
5464	13515	A	6293	1	457	FETRAGSIAQAGVQWCHLGLLQPPPLG KRSSCPQ*VTWYDRRTSSPG*FLYFL* KTGCHIVAPGCLKLVSSSDPLASQSA GITDRHQPCLGPKLWTLRKLGLDIFLW FHDNLGYTLGRNTHFSTSRVITVFRS FKHSTPDFSG
5465	13516	A	6294	76	343	YTFSSFLYFFTFPPLDNSKPIFFFFF FFFKETWVLGLNAGYV*TPQK*EALL GNTITHVTRLAKHSVLT**IE*VHDSIF
5466	13517	A	6295	362	561	LEHNIFLSFETDSRSVAQGLQWCNLSL QLLPQGKRFSCISLVSR*KAFCGPQLLN FTPIVQY
5467	13518	A	6296	3	349	FFLETEPSCSVAQVGQWPDGLSLQPHL PRFK*FSCLSLSSWDYRHAPPHSANLY FSRDGVSHPW*GRSQTPDLRRPTLLSLPK RLDYSVSHRAQWPYFRNKEEARPNPFF S
5468	13519	A	6297	42	266	
5469	13520	A	6298	106	860	RRRLPSVAIMHJYRDLISHDEMFSDIYIK REIADGLCWEVEGKMVSRTGENDDSL IGGNASAEQPEEGTEQHS*SLVVDHC HRTYHLAVKASFTKEAYKYIKDYMT INQQGNLQQRPERSKTFY*QGAVEQIK HILA*FQKITQSFMEGNMNDGMVALL DYRED/GVVTPLYMIFFKDGLRNGKNVVK CGQLFWDLSPVINWASAWSSTQHGLK TKWGLMVIFELLHFILDWGFIVEAIVF
5470	13521	A	6299	10	281	SRSFFLSFFLFVEMECHSVAKSGMQWRN IGSLQPPPGFNGQFSLSLPNSWDYRCLP LHLANFCIISRDKVSPCWSAWFSRST*PT PDLK
5471	13522	A	63	547	644	IPGRFWRL*S*PVILRLQPQATSGG*MVR ASL
5472	13523	A	630	128	379	FNSRPSLRIGLFCITCSLWDCFWCCWIHA SLYSVIRSLLSFGTLVCSLFCVAFLSFSF *VVLFFLLFISSOFFSFVFLVFLF
5473	13524	A	6300	3	111	FIKIHLPLMLPRLV*NSWFQAILPWPPK VLGLQA
5474	13525	A	6301	2530	4923	TVPHH/AFILFFF/CFERESYSAAQTVG WHNLGSLQLPFGFK*FSCLSLPSVCWDC GHGGVSL
5475	13526	A	6302	2	300	GSFALVAQAGVQWWDI.GSQOPPPGPK QFSCLSLSSWDYRRALPWLANFVFLVE TGLHHVQAGL*L.TSSDPALASQSAGI TGVGLASTYFIEVI
5476	13527	A	6303	1	453	
5477	13528	A	6304	305	432	FLHFK*MMNNMGGEDVDLPEVDGAD DVSLKILFSVYFHTIK
5478	13529	A	6305	3	306	
5479	13530	A	6306	1	122	TRPEPFGRTTSPQKG*GKKEEKPET*KER TGPSEKGETKA

5480	13531	A	6307	2	392	CSCSAEAASSGGAAPVRCFTFCFTDIVI MPKGKSPENTEKGDKSVKTVKQFTRRS ARLSAKPAPPKPEPKRKTAKKEPFGAK ISRGAKGKKEKQEAEGKGTAPS/EHGE TKA/EAEVAKTESVDNEGE
5481	13532	A	6308	3	426	AGNSSIQGHGGWTLRHSLSLSPFSR GPQCMGAOVPLVKOPRDAISLRGCLLG YDSTATGLY*ILCNLRRHPGVMPSCGAR VLRDHNPEDEIWLCSCSLEVLSSGTSST PGLTLADOAGHSGGIMPLEGSLRSDCC
5482	13533	A	6309	3	372	HAGLGAHPLHHPVVIQEGFLPAFRGFGY RSEVD*HRIPAESTGQNSQOQLRK*KDDDS YFHCGYFCGCVCTCRGRLQSSSTSHQCQA AL*LLLPLVCLTMLRCISSLYT*NLKTVHS VRLNFIYN
5483	13534	A	631	1	371	RQGPQGGRAAPRPPMPGPLSSARHALP LGSWESWCCCLIPADRPWDRGQHWO EMADTRSVHETMMQASRKEIQLPKNG SFPSTNEMRLRYSSYNQASE*P*KLSP GLWDPIGRAKWD
5484	13535	A	6310	1	230	SGRPPLFFQGKERVYFIPVVVLFYTVVV Q*LRKNVVRWQKTEPPRSVLMQLGH TEEGPGYPLLGETETKLFRTA
5485	13536	A	6311	2	100	RRPFFFFFASCI*NLISPNVQLSNFTCILR N
5486	13537	A	6312	2	192	
5487	13538	A	6313	1	451	
5488	13539	A	6314	231	1335	
5489	13540	A	6315	636	852	FRGSGPRDKTPNCLISLFSWQPHYFLQR FLYAKLLGLLAELRSINEAYGYIQHIG LSAMMLL*EICS
5490	13541	A	6316	1	690	
5491	13542	A	6317	3	302	GFRGCKPQALAASTWC*LCSCTEVKN*G LGTSTWISEDVRKHLVDQAEVCCCKGA LVDNLCOGSTEGKCGVRAPTSQPQWGT AWWSYQKRATILQIPEW
5492	13543	A	6318	1919	2245	PMQSR*RT*WS*KPWQENYVMRAQDS VADSINWKKG*QRLKIK*MK*SKKRSLE KKE*KEMNKASKKYGT*MDQIYVGLV YLKVTGRMEPSWKTLRILSRSTPT
5493	13544	C	6319	395	1096	
5494	13545	A	632	323	585	SQHFGRTPEDSLRPGI*DTGTGQPRETL LQNLKKKLAGHGGACLQSQLGLRLRWE DRLISGV*GCSDT*LYHCTPAWVTEQDP VSE
5495	13546	A	6320	304	475	PRQTGSGVDLRQTPTDLQLRV*LLLEGKI TNRKGHILHQNPCITSPSKTKGKDQIYV
5496	13547	A	6321	224	1767	HCLSNVSAAGLHFTSYCLLHEKKFKA LSLGECCGDGADGADGGDSGMARSGP LAAGLLEFAGGPLQTLFAVWSAAEAAE QPILLNSKCCCLIVPLEASSWRGTRPCEVI VSEAGASTYSVSPEANKEMPGLDPNLRS AVSIARRVQDPLAELVKIEPKHIGVGM QHDVSQTLKATLDSVVEECVSFVGVDI NICSEVLLRHIAGLNANRAKNIEWREKN GPFINREQLKKVKGLGPKSFQCCQWAFI RNQPGLYPNVLQSANLKLQAKFGQVAV TSSADVEVTNEKGQKKSKTAVNVLK PNPLDQTCIHPESYDIAMRLSSIGGLYE VGKPEMQKINSFLEKEGMEKIAERLQT TVHTLQVHHRWVFSQFEGDFRTD**T WIFKEEGVICLEDLQIGTVLTGKVENATL FGFVDIGVGKSLGIPRNVTEAKLSKTKK RRSLGLGPERVEVQVLNIDIPRSRITLD LIQGVMSIPRRPDADFISFPQIDKDKSVV CKL

5497	13548	A	6322	2	64	AFRFSSSVRIHERSHTGEKPYECKQCCKG AFISSSHFRLHERTHMGEKV*EYKQHSE AFGCSSSF*HKKRVYTGQKLCCEYKHCSK ALD*SSFF*ARKNSHW*ETL
5498	13549	A	6323	168	499	VCSSAKQ*QTCFSLVSPMT*NLIKEFLNN IKFPQODGTSQALVSGENVDRKIVGVS GVGSLYSGKIFRLGAVAHTCNPSTLGGGR GGQITRSGDGDHPGQGETPSLLKI
5499	13550	A	6324	165	548	SPSQHSLVPSTPLPGSVLWGIGGCLPCA EGSRSQQDGLWRSSVDLAVGGDGEK EVPRLALGCDLARDGSRITLPLGCPCKP LGQRWES*ELRKVPGLAPDLVESAPRS WEAFECQQLQLSP
5500	13551	A	6325	18	225	TLGLK*SSHLSSLSSWDYRCMPPHLAN* NFCFLVF*RWGLAVLPRLLNSWPSAILP PWPLKVLELQV
5501	13552	A	6326	724	900	MTSFSDFKFSQNRGSTIVTIAHFWSRKY LSDKECS*NACVFIHSI*KWANTKITP D
5502	13553	A	6327	15	185	VPFENPVDPVRPRVRFTSTGTFRCCA H*IS*LLQSGSSQASLCRYNEESQKHAAL SLSKEHNPTQYEERMRIKAGGNVR*PR QACVVMRRVKNMQP
5503	13554	A	6328	199	544	PARLGLGEGRYLITGRGWVWWLTPVIPA FWEAEVARSQGGKQIETILANMVKPHLY* KYKKKLAGGGGGYL*S*LLGRLRQENG VNLGGGACSEPRSCHCTPAWATEQDSV SKNKK
5504	13555	A	6329	837	1096	
5505	13556	A	633	1	231	
5506	13557	A	6330	454	526	
5507	13558	A	6331	258	488	NTVSTRKYKKLARRSGGL*SOLLGRLR QENDVNPGGGACSEPRSRHCTPAWATE RDSVSKKKKKKKCFQSSILLK
5508	13559	A	6332	3001	3080	
5509	13560	A	6333	6181	6292	
5510	13561	A	6334	3	222	ASVTACRLNCQGCSPQPCFPHLAAPL P*VNPQLETFP*ARTQRPLPSG*PGTPS PKPTNHIPLTDPL
5511	13562	A	6335	2	227	FFETESRSLTQAGMQWPNLGLQPPRPG FKQFSCSLSPSRWDHRRHMPSGLANFCIFS RDGVSPY*SGWS*TPDLR
5512	13563	A	6336	2	218	TWRLAVAQAGVQWRNLSLQLPPGFK *SSCLSLPSSWEYRLLPPRPAIFYFSRDR VSPCPWGSQTPDLR
5513	13564	A	6337	31	165	GSHTVTQAGMQ*SNHGSGLQLYPLSRRF SYLNLPSWWDQRSNKEG
5514	13565	A	6338	122	376	KMGPLSSSLPEAECPDPAATLGMNKM LHSHWVSSIAVPDPMG*KAASGPDFET GQAEARLSPPLSQESSVWPGDFPHQIC
5515	13566	A	6339	3	268	GRVAVRKEKGSFWLVFNWLSDLNWPL PPLPGLA*TFKSSRLRPAPAPRPPPT PSPTPRSLAVSSEGWRLLSMTLESDDL DL
5516	13567	A	634	1	686	ARAGLFSCFCFVDPDSGIGGAMSSFEQ MAEYPTISIDRFDRNLRARAYFLSHCH KDHMKGLRAPTLKRRLECSLVYLY*SP VKEVLLTSPKYRFWKRIISIEIETPTQIS LVDEASGEKEEIVITLLPAGHCPGVMF LFQGNNGTVLTYTGDFRLAQGEAARMEL LHSGGRVKDIQSVYLDTTFCDFRFYQIPS REECLSGVLELVPKLDHSEPVCCVAEL Q
5517	13568	A	6340	2	218	IYTHIH*IDPMFSL*GHMEGEVWGLATHP YLPICATVSDDKTLRIWDLSPSHCM LAV RKLKGGKRIJSHLNV

5518	13569	A	6341	1	5748	MPLKLQNCALALHPERVLVATGQVQVKEP YICWDSYTVQHSVLKDVHHTGACLAFL DLGQCSKVAVIDNARRNECGYIPVKLY LQKHSFSLICLPFYSLDFLDINQRLVSVG LDSKNVAVCVWDWKRGMMLSMAPGHTD RFWSLGCNALTPKRGVFGKTGDLQTLIC LACARDELTYSGALNGDIYVWKGINLIR TIQGAHAAGIFSMNACEBGFATGGRDGC IRLWDLTFKPTVIDLRETQDQGYKGLSVR SV
5519	13570	A	6342	2	252	PPE*LGPNCGCPPTPLPKFW*ILSKKNG GSPPIIGPGLPKP*PLRWPPCLPSPKCL RLPGHKPSAPQEN
5520	13571	A	6343	289	395	SRICPHRDTRKEYNSYTIAFINLLKFAEL DCIVYFRLNDN*M*IFRCSTIFYNPALAF HILRKPPTSF*GRFLSEMP*MLLLI* PNYLIQIKRSI
5521	13572	A	6344	262	389	PQVTFIASRYATILL*FF*PCLVFYSLPN QFYVQGLKANA
5522	13573	A	6345	1	103	QSFYTCFESF*NLVFLYCLIRITN*VYY LYVE
5523	13574	A	6346	7	156	LFSFHVSGTMAHTCNPSLTIG*GRIT*GL EFKTSLGNTVRSRYRKKKIA
5524	13575	A	6347	94	469	NCTYVIKVVYNLRHMYPITAIKISTRFKI YWYSLIFS*ICHIIFETRSLTIAQAGVWC HDHSSLOPLPGLR*SSYLSSSSWDYRH TPPCSANLVCVCDRVRVSPCYPGWLLN ILNVCII
5525	13576	A	6348	1	226	FFEMESHSVTQAGVQWPDLSLOPLPG FK*FFCLSPSSWDYRHTPPHAYFCIFSR NGVSPCWPGWRPTDPR
5526	13577	A	6349	3	308	KDEKGEEDGKEDKNGNEKGEDAKEND DGKEKGDKKEGDKVVKDEKEREEDG KEDEGNEEEAGKEKEDLKEEEGKEED EIKEDDGKKEEPSIV*NCPM
5527	13578	A	635	52	264	GLLVGVGAAAVMPGIVELPTLEELKVDE VNISAAALKDACHDYGDDEWDKNVNDIM L**LEQLHPSMQQAL
5528	13579	A	6350	1	239	MDGGTEKPFACPVLCIKRYKNVNGIK YHAKNGHRTQIRVRKPKCRCQKSYKT AQGLRHHTINHPVSAEIRKMQQ
5529	13580	A	6351	219	688	RRMHAYVSLDPLERPFFFFFLLLLLLLLL LRRSFALVAQAGVHWRLDLSGPQPPPRF K*FCSLSLPSWNYRHAPPRANFVFLVE TGLQLPTSGDLPASASQSVGITGVSHCA WPGNWLLKETRCGSSVGRQTGPITDA WVDPGPIDRYLQA
5530	13581	A	6352	3251	3700	KWPYWLKEESSKLLHHQETS*HSNLGN* ASGLRTLPRAEQKKE*GMQTSGR*TR* KEALFSITTDQRRPAVGSSSLPAGHLCS QQRRAFTDLRGEDVLADWSMGYGWGP RRGRPTLTVGRGAHSMATTTDPHRVL PAYHQCSPCI
5531	13582	A	6353	3	347	DAWEQTQDTELVEITRPAAGDGTQKWA VVVPSGEEQRYTCHVQHEGLPQLIRW EQSPQPTIPVIGVAGLVVLGAVVTGA AAVMWRKKSSDRNRGSYSQA*AV*DSFL VWD
5532	13583	A	6354	3	174	

5533	13584	B	6355	10	720	MAPRTLVLISGALALTQTWAGSQSMR YFSTSRSRGRGEPRIAGVYDDTQFV RFDSDAASQRMPEAPWIEQEPYWD GETRKVKAHSQTDRENRLIALRYYNQSE AGSHTLQMMFGCDVGSDDRFLRGVHQ YAYDGKDYALKEDLRSWTAADMAAQI TKRKWEAAHVAEQRAYLEGTCVDGL RRYLENGKETLQRTDPPKTHMTHHPISD HEATLRCAWALGFYPCGDHIT*
5534	13585	A	6356	3	223	
5535	13586	A	6357	1	179	RSQVIRHQRIPTGQKSYKCHKC/GQQFSL RSLIAEHQKIH*DN*CTGNEYSKPSSIN CH
5536	13587	A	6358	38	294	LHLMMQRNRLHTGDKLHKYDDC/GKAFT SHSHLIRHQRIHTGQKSYKCHQCGKVFS LRLSLAEYQKIY*DNSSSECNEYSKPSSIN
5537	13588	A	6359	2	244	
5538	13589	A	636	1	380	KIHSVCGGRARASCSFASVFLISKMVRE QYTATEGICIERPENQYVYKIGYGRWK RCLYLVLGLLLMILVNVNLTILWLNVTW VSSSTTAPHRV*H*NSLCAETQLQLRLPK RGRHVNFVEPV
5539	13590	A	6360	339	1079	ILSLPLLLAGDTIISCFMGNHNSLPVVK GEIQARNLGMAVEAWNEE*KAGWGEGS ELACTKPIPCQPTHFWNDENGNYKKA YFSKFPSIWAHGDY*RNPKTGQIYMLGR SDGTLPNGVRFOSSEIYNIVESQFVED SLCVPOYNKYREERWILFKMASGHAFQ PDLVKRIRDAJRMGLSARHVPFSLIETKG IPYTLNGKKVEYAVKQIAGKAVEQGGGA FSNPETLDLYRDIPELOGF
5540	13591	A	6361	1	1047	MVSIWPRDLPASASQSGAGITGLIALVL SVGIVAEVER/HEI*NP*KCLPGSSHHHP PGRJRHVGLLHWCAQVPP*QPELLASL RLSRGYGLVLSWLEPRYEKMISGMYL EIVRNILIDFTKKGFLFRGQISETLKRGIF ETKFLSQIESDLALLQVRAILQQLGLNS TCDDSLVKTVCVGVVSRRAAQLCGAGM AAVVDKIRENRGLDRNLNTVGVDTGLY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSQKGAALITAVGVRLKTEASS
5541	13592	A	6362	2	55	FFLRRSFTLVAQAGVQWRDLGSLQPPL RFR*FSCLSLPSWWDYRCLPPLANFLHF QQRRSFTILARLVSNS*PRDLPASASQS AGITGMSHHACPV*FFFTEFHSCCPGW SAVA
5542	13593	A	6363	167	293	VVKLLGLLGNMQMKTMMNFDFLTVMT QKMSKDTKEILKSSQFHHQRA*KLF DDDETGKISGFL
5543	13594	A	6364	3	226	FLR*SLAVNQAGVQGRHLRSLQPLPPRF KLFSLLYLPSSWDYSHAPLPANFCIFSR NDVSPCWPGRSQTPDLK
5544	13595	A	6365	1	648	
5545	13596	A	6366	26	612	VGAGGRGWIFAFAAVRRAAGGLRPGP APGPAGGGGPRGAHLALLRRAGALRA GKEYGKADARWVYFDPTIVSVEILAVAL DVSLALFLIYAIVKEKYRHRFLQITLCVC ELYGCWMTIFLPEWAHPAPNLQAPATG WLYWLGFTLFFF*RCVGLFIPRNWLLWA VHGPRTSRKWHQKGNQFQWKEVFSGTF QNP
5546	13597	A	6367	3	292	TPWLRDFDHDPIVEVSVPFPEPLFSAP GLPEPRAGHSVPSGLSVVAFFSPSSDNVP GSLEHLVLHFFPGGDVSLRLPLCLP*ETIF MIPLSRLRCPSCRSVSPSQHQAACLSLGL VILSPVASVWILFHRLLTMSQVPWSIFL FSISPGATCPCSCALCAFLSRSEELRSHLCH R

5547	13598	A	6368	237	1202	
5548	13599	A	6369	2	58	PRVRCFIYTGKAPNLDKMAADDLLAAAD KVR*EGSKPRQNG
5549	13600	A	637	23	360	LCQSQATLLSIFSQYQKHKIRTHAKHHT SEAIESYYQRYLNGVVKNGAAPVLLDLA NEVDYAPSLMARLILERFLQHEETSFPK GIINMMLRYPSQIPDGALAY*VYHGK
5550	13601	A	6370	1	1136	MSSGPVAESWCYTQVHFLFNCFLFFYQ QIKVVKFSYMWITNNFSCREEMGEVIK SSTFSSGANDKLLWCLRVNPKGLDEESK DYLSTYLLLVSCPKSEVRKAKFSILNAK GEETKAMESQRIAYRFVQKGDWGFKKFI RRDFLLDEANGLLPDDKLTIFCEVSVVQ DSVNISGQNTIMNMVKVPECRLADELGG LSNSRFTDCCLCVAGQEFQAHKAILAA RSPVFSAMFEHEEMESKKNRVEINDVEP EVFKEMMCFIYTGKAPNLDKMAINDLL AAADKYALERLKVMCEDALCSNLIVEN AAEILADLHSAQQLKTAQVDFINYHAS DVLETSGWKSMVVSIPHLVDEAYRSLA SAQCPLFGPPRKRKLQS
5551	13602	A	6371	21	358	OCRHASCAAFRALGARAPQR*PKAGR VFPERTS*T*G*PAPGRHFGPUGRRR RSGCSRVRSSVRDC/SSRSKASNPPLSL SSSTGCDGARPPCSV*RWRFPGARR
5552	13603	A	6372	1	1458	SLPRNLVPTIISQDFGDA SPRTNQGEADD SSTSEESPEDSKYFLPYHPQRMRNLKGI QLQRAKSPISLKRTSDFQAKGHEEGTD ASPSSCGSLPTITNSFTKMPPRSRSMISITA EPPGNDISVRRYKEDAPHRSTVEEDNDS GGFDALDLDELAAGETVAQSPGPVQPCQ PLFGQSPSLCQLRLPTDETKDEWSSLMG KHQRYQVLKRDSDHIERYSFGPSIHSSSS SHQSEGLDAYDLEQVNLFRKFSLERCR NRGPQRKGLAKAMQHRGKEVGRYP AVPIHDTVEPDPSGLRSLWGTCGAQGP RCSTRR*MATASPPSSPCWGATREGASC TRSSALWPRKPASVRATSCCC*KAASE ARGVSRWTHAPKRKPTGSRGAAAPS RCTKGQPRSPAENPWACRI*CGQHLQSP ELRSSTALQVWNSRERKFTIPAGVPEAGE GHGGRPDHIGGLVLHPAEPEHLQAPAGRL HHVPEV
5553	13604	A	6373	103	226	CCFEILKLMKILISEMHMLFFL*QLRKS A*IPYVPELFLS
5554	13605	A	6374	112	303	
5555	13606	A	6375	3	109	AWKFFFFYFILLFFPLEKHFFYYVQ*NISL A*KKKK
5556	13607	A	6376	22	175	THDHVSVYFFFLGLKSTIEQCDIKMQIFL FI*VENHLPVSIYILKYFLWL
5557	13608	A	6377	1596	1878	TMSDTTFKALR*QLPVTTRKIDWNKILSY KIGKEMQNA
5558	13609	A	6378	394	626	SDSVNPQLRVFKILN*SLGILKTHIQIKLF FFFFSALTALGILLVCVSIYLYGLPRQD TTSIQQGETASKERVIGV
5559	13610	A	6379	2	101	KTLLVPLIPITITLANPCKKD*YPYVVKISI AC
5560	13611	A	638	1	77	
5561	13612	A	6380	1	297	SRFKRFFCLSLPSSWDYRHAPHALANF VFLJETGFLHVGQAGLKL*GDLPALAS QSAGITGGNHCTRQVQCFFRCWGTYRES GQKLDPARVMFENK
5562	13613	A	6381	1	394	TGTHFFHYLLVLLFLEMGPQSITQADV QGHNHSSLOPQITPLGLQSSRL*NSWD YRHTPPHAFNFRIL*ROGSHIYVAQC*SQ TPGLKQFSRLGFPKRWGGRHESHPIMAR DRYSYCPHPPDEETGDPER

5563	13614	A	6382	3	160	QL*WSHLLKMLQRYSSCNV**KRRGLR TYGLDMCSQLSCQYAKDIGFIKLD
5564	13615	A	6383	1	1240	
5565	13616	A	6384	3	3129	KLGSMEPAPARSPPRQDPARPQPTMP PPETPSEGRQPSFSPSPTERAPASEEEFQF LRCCQQCAEAKCPKLLPCLHTLCSGCLF ASGMQCPICQAPWPLGADTPALDNVFFE SLQRRLSVYRQIVDAQAVCTRCKESADF WCFECEQLLCAKCFEAHQWFLKHEARP LAELRNQSVREFLDGTRKTNNIFCSPNP HRTPTLTSYCRGCSKPLCCSCALLDSSH SELKCDISAEIQQRQEELDAMTQALQEQ D
5566	13617	A	6385	2	416	ACCLLYRGDMVPKDVNAIVTIKTKRRI QFVD*CTPGFMDGINYPSTVVPVENLD KVQRAVCMLSNTTAAIAEAWARLDHKFD LMYAKRAFVHWYMGAEEMEEGEFSDAR EDMAALDKDYEEVDADSVQR**GDEDDGQ EY
5567	13618	B	6386	95	412	TNRSIQFGDWCPITGFKVGINYPPTAVP AGDLANVQRAVCMLSNTTAAIAEAWARL DHKFDLMYAKRAFVHWYVGEEMEEGD FSKAREDMAALEKDYEEVCVDSVE*
5568	13619	A	6387	2	614	
5569	13620	A	6388	151	1605	RGKTLRGLWRFQKIPHTHSRENRECISIH VQGAQVQIGNACWELYCLEHGIQPDGQ MPSDKTIGGGDSNFTFSETGAGKHVP RAVFVDLEPTVIDEVRTGTYRQLFHPEQ LITGKEDAANNYARGHYTYRQLEHPEQ RIRKLADQCTRLQGLVFHSGGGTGSQ FTSLLMERLSVDYGKSKLEFSIYAPQV STAVVEPYNSILTHHTLEHSDCAFMD NEAIYDICRRNLDERPTYNLNRLIGQIV SSITASLREDGALNVLDTEFQINLVYPR IHFLATYAPVISAEKAYHDLQLSVAEIT NACFEPANQMVKCDPRHGKUMACCLL YRGDVVPKECHMLAILPPSKTKRTYPCF VDWVRPSGFHRCGISTIQPFTLLVPG/GD TGARYORSVHC*ANTTAIAEAWARLD HKFDLMYAKRAFVHWYVGEEMEEGE FSEAREDMAALEKDYEEVGVDSVEEGE EEEGEEY
5570	13621	A	6389	1	251	CLKHISFLNGSLTPGAAVKSWLTSACS FKGFSCLSLSSSNYRCAPPRTNFCIFS KDRVSLFLFLFLPLLARI VLNY*POV IHLFWTPKVLGL*AAVKSWLTSACS KGFSCLSLSSSNYRCAPPRTNFCFSK DRVSLFLFLFLPLLARI VLNY
5571	13622	A	639	34	421	
5572	13623	A	6390	3	445	RLFFFFFVFLVEMGFCHVGQAGKLVT CDPPTSASQSAGIAGVSHRA*PNTSLK*K LTDKSPGICFFVCFEIES
5573	13624	A	6391	2	176	CKFAIHGNAELHEWEERRDALGMKLNK ARKDHLGPNNDNDFGKYRFLFKDLN*YA GFYV
5574	13625	A	6392	186	374	
5575	13626	A	6393	872	1122	LRPWKPLCSSVERIWLPAVELLPPPPAG VLPQPSAQYGERRTFGLTCQGGPGTRAG PSMGCTGYT*RVISISQVAGPFHHWFL
5576	13627	A	6394	3	415	ERI.WLPVSELLPPPPAGVLPQPSAQYGE RRITFGLTCQGGPGTRAGPSMGCTGYT*R VSISQVAGSPPLASRMVQRGWLGPFVR LLPAAALGDMCAHLASSPCSLPVTVP ASQVPPKELDIPSPCSLRPRKVSGP

5577	13628	A	6395	3	349	VSVVEFLCKSRFAQWSHLAQHQLLHTG EKPFPCLCEGRCFRORWSLAVHKCSPKA PNCSPRSAGGSSQRGNAAH*KGKDCILRSF HFMEGRPKGKEEPQVIGRVRKPGSPA AQ5
5578	13629	A	6396	2	352	EGAAPSSGGPLRDFWGFPRNTNKPCSGT G*SLQRICWMA5LAPPAPRGQAPIHTH RPLGRPSRGAQVQPAAGQATSKQSP GPGFWSQLPQDLTTASVSPSVNGASKAC LECK5
5579	13630	A	6397	2	361	GGEDPALCRKPTAQTQTQKKHSGTAA VRSRERHKEVRAGHSLAIDSP5SLPGI LSPVHQCDVTRVDPISLITALLWLPSPAP K*RSEPHKPGVGDPVWSAPPTSGEDLILL ATSAH
5580	13631	A	6398	11	967	GSWSGLGARPPGOWNYTGSKKLSPGGE AI*MKRSKELITKNH5QETSILRCWKCR KCLASSGCFMEYLENOQIKDKDDSDVDAQ NICHVWMNMNEALPEWISCLQKAQWT VGKLCNCFPGCARLGGFNFTVSPKCSGG LAAVHL5KSRDTYQPTQAGRLMRFSVK YLSHPTVQSGCDKEALLTGGGSENNRHR LLNMARNNDPGRLEALCLEVRPTFYFE MKNEKLLSKASEPKYQLFVPLVTGRCA ATRAFH5KSHSLDNLSEKLTLLPTLYEI H5KTTAY5RLNETQPID5GLPLQSSXNS YSFONFSSFG5
5581	13632	A	6399	105	465	5RAYCSLTDPGLKQSSHSPQVAGPT GACYHAWPFI*ILAQMRSHYVARAGLEL LSSRDPPASASQAGVTGISHAWPVL LYLAGTQSP5HFHYDGLDNVSSCLHANF SSLSYST
5582	13633	A	64	647	885	TGNLQNGRKFSQPTHLTKG*YPESTMNS NKFT5RKKQTT5PSKSSSPQRRTHRQRPW GSSQPLAHSAS5PGRGSC5QH5F
5583	13634	A	640	3	345	DAWA5PLN5R5FFRMMMDIGAA5GVMQ GGDSV5ELL5DIP5L5K5DIP5L5P5LL5GRL GFH5PLKNTVCIY5GHL5DVQPA5LED5GWD SE5FT5L5VERD5GLH5GR5GST5DD*VPL5AGW INA
5584	13635	A	6400	1	462	HK5SDGSTV5VPMMAQTNKFNYTEFTTP DGH5Y5DILE5PHY5GDTLSM5FIA5PYEKE VPL5SAITNLSAQLISH5WGNMTR5LPRLL VL5PKFSLETE5DLR5KPLEN5GMTDM5FRQ FQADFT5LS5DQ5PLH5VAQALQ5VK5IEVN ESGTVA5SS5TAVI
5585	13636	A	6401	3	569	NQASL5FLH5L5R5P5SGHL5R5L5P5GR5WGK VGAAS5QR5P5R5LE5Q5LA5ICR5F5LE5TV5DL RK5PLEN5GMTDM5FR5Q5FQADFT5LS5D5Q5P LH5G5PQAL*5KV5IEVN5SGT5VASS5T5GESG SGEAPR5V5P5T5SP5FRIT5G5Q5TR5K5GR5PL5GT EQ5LCL5CSAITH5SP5PV5Q5PK5RAW5DH5GTL FP5RL5MAP5K5FP5D5CEKAS
5586	13637	A	6402	3	194	5FFFTCTQM5FTAITFITAPN5W5Q5R5C5PSIG Q*TNLFNEA5VLSREESIKTKTRDCRYHM DRISK
5587	13638	A	6403	2	223	EM5ESC5TQ5A5GVQW*DL5SS5LQPP5PPGFQR V5C5L5F5SS5WD5Y5RL5P5PLAN5FCIF5SRDG V5SPC*PG5SR5TP5DLR
5588	13639	A	6404	2	247	RL5FFF5CF5FEM5ESH5VTQ5AVVQWR5DLG SLR5PPPP5G5FK5Q5F5CL5LL5SS5WD5Y5RHT5PPH PAN5CIF5SRDG5V5PC5WP5G*5SR5TP5DLR
5589	13640	C	6405	65	211	M5PN5WR5WG5P5CLAT5PQ5V5T5P5DTQ5PCQ AL5GL5G5PH5PRNV5Q5PII5SGT5G*
5590	13641	A	6406	1	112	G5RG5CN5QS*5SRH5CTPA5WVTK5Q5GIS5DIDI LIR5PL5TI
5591	13642	A	6407	259	380	GC5V5Q5GV5NV5QH5CAG5Q5HL*ENG5PG5SS DC5GW5HR5GH5PL5CRL

5592	13643	C	6408	5	160	MGFEGGPKILNWKFKKXXQXSLXKG QXESIFLNTXKVRAGDTXKSLV*
5593	13644	A	6409	117	207	KKTMFRQKLFYKRRQLQKGPRP*GAGF KV
5594	13645	A	641	1	1254	
5595	13646	C	6410	155	394	MLKWIYRIFVNLFLVFVRFFNCFLGAEC ISLPGQCGGAEVSSSRITFPQHLLSLYL MXXXXXXXFLQALGLCYPIQ*
5596	13647	A	6411	68	547	LDNR CERCLTEGGWLTSTHTAPRGKGTW GQKKEPASPWGPGCQW*RGAWPTGC KQGRGGSPSPOLGSGGRHEPGQAKATK ASPSQGE GDKRPRQGPSPWSRSSPRPI SDPPTPGGDKGSPSTSLRL*TRLEPLVS LGISAGPTRWTLASAVLQO
5597	13648	A	6412	11	321	KNFYLF*DGVS LVAQAVQWRDLGSPQ PPPGKLLSCLSLPSSWDYGHVPTMPG* FCTFSRDGVSPCWSSWSRNRISDASACL GLPKCWEFTRDRNSAPRS
5598	13649	A	6413	17	237	YVAQAGLNLASSQSSCLSLPKHWDYE CEPLCLAFFFL*ROGLAMLPRILPKIKSI SIRWRNGQKKMHQVL
5599	13650	A	6414	806	1680	AMGHCITTTTRERSMPTTSAAVLPQPM RQWQLQLPPCITQSRPCPSCHKSRQIPW PVTSPPLSIPITIDTCRPOELLPLQLLQ QPLLLLQLPLHITGGIGAPCALQPQSP LLERATVTGMRVSCPKLQQRGILCTTW PGMSGSSMPIGRVATNAKARCRHAAD TALPAASASCVGTTTAACWAAAWASAT TGPSCACCFMPPASCSTSLCCWALHCRP CCEPTRPSTWLPSSCFPGSC/CRDHHCR LGRVCVGFNYRPFCLL/SSCCR/PSCTS LCCWALHCRPCEPTRPSTWLPSSCFPGS CCSQPHCPFTLWSTLTPLSHGLWLQSQ TSSPWPALWKSRSVSGSLH
5600	13651	B	6415	61	516	MTTLKKNLADDDAVSCLVLGTENKELL VLDPEAFITLAKMSLPVPVLEVSGQFD VEFRLAAACRNGNIYLRDRSKHPKYCIE LSAQPVGLIRVHKVLVVGSTQDLSLHGT HKGKLLWTVQMPAAILTMNLLEQHSRG LQAVMAGLANGE*
5601	13652	A	6416	360	861	RCGSFLQLLPMPPKPADTALPAASASCV GTTTAAACWAAAWASATTGPSCACCFMP PASCSTSLCCWALHCRPCCEPTRSTWL PSSCFPGSCCSQAELWHSPLWPS*RTA WRVRCCAGLGCSSMGCCCCGARPHGSG LGASTPMTWVPATTCPQWPAPARRLGP
5602	13653	A	6417	2	263	NPRDGPPTAACWAAAWASATTGPSCAC CFMPPASCSTSLCCWALHCRPCCEPTRPS TWLPSSCFPGSCCSQP*SPLSCKPLKPPV F
5603	13654	A	6418	18	211	NEPRASTLTSSKAGORQAPWTLFPNSYP L*EYPPANPFQGGPHDCRAQTKDMAQ APRVPEAGP
5604	13655	A	6419	2	548	NGRFGAHSQCPACVLPGQAMSTGGRQ LPHPCMNPPSPGDSMDAVIKGAAYDLG GTWKGA PLGLWHCGG*PIENRAGAGE T*SLHI*TPVRSFGFLGTSPMGSPGALKN HGSCARPLSLPYPPKERPLPPVHLQS EDLPPRGPEALMPQELGLERC*YPLPQV PRFRGTGAGLVQA
5605	13656	B	642	52	554	MGKEKTHINIVIGHVDSGKSTTGHILY KCGIDKRTIEKFEKAAEMGKGSFYA WVLDKLAERERGITIDISLWKFETSKY YVTIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*

5606	13657	A	6420	368	623	LVCVFFFF*ERESCSVTOAGVQWCDLG SLQPPPPRSKQFSLVLPSSWDYRHTPC LANLCLIFKSRNPKYFIFPNCYEWED
5607	13658	A	6421	42	179	
5608	13659	C	6422	28	219	MQILLKSKPKGSTKXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXFRCHD*
5609	13660	A	6423	2	161	KNLH*MESYSVAQAGVQWHDLSVQPL PPGKRFSCFSLSSWDSRLYFRCHD
5610	13661	A	6424	363	750	REQDPACAWSSSAPNSSWSLHGEAVSH RECLSSPVLPGPDSSKALSSAAALSMSS GRGGGSLVPFSGPVSQVARWIASCVAGE SCLA*AGTRTRCTAPSEAT*SSTRGLSRG AASLAASVHHGSRMSL
5611	13662	A	6425	890	1879	LWGLVTSSCLSSRRNFTTEIFQEDLMLS DPLNLLSLVMWLCCTLWLSAALSMSSG RGGGSLVPFSGPVSQVARWIASCVAGES CLA*AGTRTRCTAPSEAT*SSTRGLSRGA ASLAASVHPSGRMSL*VAGKPKGPGPTE AAPSCRSSSITICTPLTLSSHSTADRAL KASPLGLSLRGPGSSGGELCARLSPSSSGM DTPCLRSPSTSSWRRFNNSLLALARPRA ASAKPTALSTRW*ITCRSCSEL*TAKPCP VTVMGVLGGGPPWEPVLPPLVSLQA QQQHLASLPPFSSMRMRVGAQAPSCR RLPRARGETPPLRPSGR
5612	13663	A	6426	8	363	AEVQWRNLSLQPPPPGFK*FLCLSLPRS *DYRLAPPCSANFCMVTEFHHVQGVG LELLASSDPPPALASASQSGAGITVSHHA WPRASLLSLVIALKQASFFCSHAKPQVS QHFTN
5613	13664	C	6427	87	287	MIFFSFCVNTWCHSPFCATVTEYHSLXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5614	13665	C	6428	11	328	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFSFVNTWCHSPFC ATVTEYRLXXXXXXXXXXXXXXXXXXXX XXXXXXXXWGLFCCIITQRKVEG*
5615	13666	C	6429	76	276	MIFFSFCVNTWCHSPFCATVTEYHRLXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5616	13667	A	643	36	695	
5617	13668	C	6430	7	324	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFSFVNTWCHSPFC APVTEYHRLXXXXXXXXXXXXXXXXXXXX XXXXXXXXWGLFCCIITQRKVEG*
5618	13669	A	6431	1	336	FFFFFRQSLSAQAQGVQWCDLCSL*SP PTLSTPLASASQVAGITGAHH*TGIIFFV VETVFCVHAQAQAGLELLGSDPPASASQ AGITATVPSLL*LFIKQKQKQNRTY
5619	13670	A	6432	3	1105	
5620	13671	B	6433	52	936	MAYLKIQKYEEAKDCTQAILDGSYSK AFARKGTARTLGLKLEAKQDFETVLL EPGNKQAVTELSKIKKELIEKGHWDDV LDSTQRQNVVKPIDNPPHPSGTPLKPKVI IIEETGNLIQINDVPDSTTAAAPENNPNL ANVIAATGTTSKKNSSQDDLPFTSDTPR AKVLKIEEVDTSLLQPAQLKQDVCQS YSEKMPIEBQKPAQFATTVLPPIANSFQ LESDFRQLEKAGWQLAFLRYYYHLLDV QKITVCMWQKAF*
5621	13672	A	6434	1	309	LPPIPADSFOLESDFRLKRSMDMLYHD* KQIEPSLYPKLQKNLDPDVFNQIVKILH DFYH*GKKSPILIFEILQRLSELKRFDMA VMFMSETEKKIARGII

5622	13673	A	6435	1	936	
5623	13674	A	6436	1	1023	
5624	13675	A	6437	602	744	TPASLKIPVE**NTLLAKMVSIS*PRDLPA SASQSAGITGVSHRARC
5625	13676	A	6438	1447	1931	RKVFVKWLSAPLDVSNCPSLCKD*W*RV* RFMPETFPAR*GAENPTLPCCHY SIN/HFT VFSFL/IFFWR*SLTLVPQAGVQWRDL GSLQLPPGFKR/SCLSLPSSWDYRCLPP CLANFLYF**RQGFTVLARMVSI*PHDL PASASQSAVSFYLIFFLPY
5626	13677	A	6439	1	74	FWRPVRRQSEYKQVNGQDSTFPI*CLQ TNTDYRFRVCA*RRCLDTSQELSGAFSPS AGFVLQRSEVMLTGDMGSLHDSKMNS MMPITDEQIAAIIALGFATLILFGFI*QSE YKQVNGQDSTFPI
5627	13678	A	644	62	1548	PLKAKMGKEKTHINIVVIGHVDITGKST TTGHILYKCGGDKRTIEKFEK/EAEM GKGSFYKA*VLDKLAERERGITD/ISL WK/FEDQQVLMWTHIDCPRDTETPIQKHD LQGTSGQLAWFGPPFWGSGPLIVCCW CLVEFESWYSSKHGWRPREHALLGFTYT GVWKQTKLFGVKNKNWIST*GHPTAQKK ILKEIVKGSALTLRKIGNPDTSSILCPIS GLNGDHMPGAQMPLNPWFKEWKUTRK DGNASGTTLLEALDCILPFTPTDKPLGL PLQDQYKJGGIGTVPVGRVETGVLPKPGM VVTFGPVNVITTEVKSVMHHEALGEAL PGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIAKFAELKEKIDRRSGK KLEDEGPKFLKSGDAIVDMVPKPMCV ESFSDYPLPGCAVVRDMRQTVAVGVKA VDKKAAGAGKVTKSAQKAQAK
5628	13679	A	6440	2	174	FFIFFFLLLENLF*PSNFGSVKPVHCCVFF CCCCFFLAVFFFVCFCCFFSFLFF
5629	13680	A	6441	1	271	PPRFPEFFYSGPPKPPFKTPVFLGVKPG VSSSPPYQKKPTNFQPKMGAL*RIPLFET PIWVFIKGFHKKKPPVLN*PPIRKPPD KI
5630	13681	A	6442	3	128	FFNKKPPFGRGWPLVPATLRF*G*KIPP PPPPPEVRFP
5631	13682	A	6443	1	154	LVWS*EASKIPGGAEEAHPTTF
5632	13683	A	6444	2	230	FFFESGSRSVTQAGVQ*HSLGSLQPLPP FK*FSCLSLPSWDYTHVTPRPAFCIFS GDGVSSCWPGWSRTPNLR
5633	13684	A	6445	70	550	NQVIWESFOPAGRHGHPFAPSLAPSASF LSFCPSGKAETLESIS*SSGKPGVGEGAT SLFPSIS*MFWECPENGTOEPAGMPIHT PPSCSNPAIHSPGOTGAPGRREALHCPP *HIPSHPPSRPPWLAPLSLRFPPTMAVN DQDRSHVCFPLGLI
5634	13685	A	6446	77	485	NLYVYSSICTFTWTFHERKFFYVSHVLY KVASPMKCLYCHSGHTQVVOYLNGEA ARLGQGLLC*NVIFICLLSLSLFSFSG PMLKM*NFVK*CFYNFRKPKFVFFVTL DENSLEYIGTSNVITVLNKFH
5635	13686	A	6447	3	349	KVEDPSPVWRNSIFWKFVITFKVYFFCLF VFLETESLVVQAGVQWHSLSGSLQPLPP GFKQFSLCLLS*DYRCTPPRPADFCIFG RDGVSPYWSG*S*TPDMLMCPAFLPKVL
5636	13687	A	6448	1	189	FFF*IGHPSVAQAGVRWCDLGSCLNLP GSSDPFASASQVAGTTGVHYTYQLIFKF JEMRAP
5637	13688	A	6449	2	304	LDTPLGAAPAAFFPLSLNQCINPMPVR PLKAWRLKTGILTEPRVKGEALGAGMM PTGVSTASSPSYPLAPLGPRLQDQCMH QALS*APLSDALCIAL

5638	13689	A	645	2281	2431	KLFFLKNVLLNFFFLPLLPSPVLVVCYCCF SFFFLYLCLFFTVVLGSARNK*KLFFLKN VLLNFFFLPLLPSPVLVVCYCCFSFFFLYLC LFFTVVLGSARNK
5639	13690	A	6450	21	359	SLLQPSPAFFSPAFCGLL*PSVVPSPAFS SLL*PSPAFSSLL*PSLLWPSFSGLL*PSLT FSNLL*SSLLPSTETPAGORQELQLFPV GGAADAYFPFKCFKILSSECLK
5640	13691	A	6451	2	170	LSLLSS*DYR*APSQLANFSIRL*RWGLA VLPRLVSDSWPQMILLPPVPDVLKLA
5641	13692	A	6452	3	112	
5642	13693	A	6453	4041	4215	
5643	13694	A	6454	3	309	PPPPK*IL*RAPNPPLSSSSFNPTTGWGP QPPPSKFSKFARFPPLPPFPFKKEPPSSSL FFPTKEGTVI*KNPPFSGFQSPDSIK*GRV EPPGGTKRG
5644	13695	A	6455	2	439	RTSAREKRDNLRLKKLGDSSKNSDC*SV SSNTDADATQEKNNATSNRKSSVGVKK NSKSRITLQROSMRIPASSNSTSKLTHIN NSRVPKKLKPAKPLLSKIKLRNHCKRL EHKNASRKLEMGNLVLEKPVVLYNKL PHKKR
5645	13696	A	6456	1	146	
5646	13697	A	6457	59	431	PTAMAEEGIAAGGVMDVNTALQEVLT ALIHDLARGIREAAKALDKYVYQSQYC GFLQPEONCHPREEGMEFVLAKQF*MM ASVLPET*EKROAHLCVLASNCDEPMY VKLVEALCAEHQINLIKVDNKKLGEW VGLI*ILWVLATGTKLPPKRRRHGVHGV SAKVLNGIRPTGNLKGAKPIFVCLHPT VMSLCMSSWRRPFVLTNTKST
5647	13698	A	6458	242	431	
5648	13699	A	6459	65	473	PTAMVEEGIAAGGVMDVNTALQEVLT ALIHDLARGIREAAKALDKRAHLCVL AFNCDEPMYVKLVEALCAEHQINLIKVD DNKKLGEWVGLCKIDRGGPKRVGVGS CVVVKDYGESQAKDVIEEYFKCK
5649	13700	A	646	203	371	HTDYIPNGPRTNEPTAHELIG*H**PSHFR T*VEQYININADLKS*YQHSMRMLSG
5650	13701	A	6460	32	485	HLVLAASLACLASIFLPSVGLGQCDLVGS QKTIPRNEGLPRKQTFSLDLLPSCLWFP YSPPLRAIKTTIPLHQKPAKPKNITLTL FLSV*NWAIGKLFGLPSGL*GOEGPPFOR ESCAI*GRKECCAKRPRKRLTDRPWWPH SVYQH
5651	13702	A	6461	3	336	FFFDIGSCFFA*AGVQWHDHGSLOPQFP GLK*HDIPTAS*VAGTTGAHHHA*LI* LSVKMGSSPLVAPGWSMKSWTQANPSL LQPPQSAWDYRCEPPCLVNTFEYV
5652	13703	A	6462	2	280	VLGIWVRVPGSGKMEKRESEKILPRPIG CIWERGKSPGEAPSALEMPWNSPPPGTC TPSCFTYRCTLPR*TDAPSRHTHLAPRN GETIFA
5653	13704	A	6463	1	171	MWGWKEKIKINTFVYCWWEFKLVQNF WSTIWQHILKF*MSFDALLGIYPKYILT NVT
5654	13705	A	6464	21	402	
5655	13706	A	6465	42	266	
5656	13707	A	6466	60	656	RRRRRLPSVAMIIYRDLISHDEMFSDIYKI REIADGLCLEVEGKMVSRTEGNIIDSLIG GNASAEGPGEGETESTVITGVDIVMNHD LQETCTKEAYKKYKIDYMKSIKGLLEE QRPERVKP*MTGAAEQIKHILANFKNY QFFIGENMNPDMVALLDYREDGVTPY MIFFKDGLEMEKCVSTRKVVKNVKK TF

5657	13708	A	6467	176	552	MRSSKQMKPNFPRCSSITVLVSRGMVLF LTLACPRFKMSSRTDFRGNPQVT*GSTI CSIFRLPSILSMRTTK/DQGMITWQFGQM RFHF*SSETHLVTLFPPGIM*E*FQSLKPE PFSFLI.SCYCH
5658	13709	A	6468	98	507	RATEKWKGRKNHELKWCFFPKJFFRRS LAMVLCITSKLRPSVLSMRITTKARECLSG SSNA*GFTSSRLRHLSRRCARHNHVGMI PVA*T*ALFLSSAPSLPKMPALPGWLCGL DKPSSFGSDFLPEKQFFTLAPP
5659	13710	A	6469	204	401	WHEFTGAENHCKTLPAENF*WCLCKSH PSEPKAAAYNRITLCDLGISKEVSLGTSP EMWTSQQOE
5660	13711	A	647	12	355	LFSSLSGGMQSLSLQGTGISEGLN*LTSM APGNLWHMRNNFLFGSRCWMTFRSAEN IFKSVSFRLVGVKCHNTDSEPLKNEDLLK NLLTMGVDDIDMARKRQPGVHIRMITNE QD
5661	13712	A	6470	249	906	RJHIFPRVSGPSQSNPKFAVASRGGFISLS SAQDPDLPPLPGEALALSHPVPRKSTET VAGDSSELQGLRSPQQPLAGLAFARL FLLFPPP*RCKSKPN*NDRRSSVDSQIHL VGRESAHLPLAGLRVCVSLPLARCFCGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVVVEARVSS*ESKI/SRALR*S THLGLPKCWDRREPPCPAH
5662	13713	A	6471	401	659	LIDLRFTYLFYLR*GLRVP*AGVHWCN LGSLQSLPPGKFRFCSCLSSSWDYRHAP PHPAHFCISRDVAPSCWSG*SQTPDLR
5663	13714	A	6472	1271	1538	
5664	13715	A	6473	1	369	ACSSCFHAGLEHVVRVSGSCHISGVAAR RSEAPDLFC*PPSLPVPSTPSPSPAPAMN QATSDPHTHTCPTRLPTCPNAAP*AGPTAD TPS*GIPDLPVAVLKTQPHLDLPVCSLCG PPLGPTET
5665	13716	A	6474	3	340	ETRSYSVTQAGAEWHDHRLS*P*PPGLR *SSHFSLSNWDYRCVPPHSANFLVIVEI VFHHVAQAGLELLGSSDLPT*ASQSTGIT GVNHCPAEKEVLPREKAMQRGGGSA
5666	13717	A	6475	21	273	GMNERGNITKEIKKIWEYEE*LGTSOLD TLD*TNSQKDDTNYQNQLTKYRYKGLEPI TSDYISNFKRLPKKSPGLDGTGEFI
5667	13718	A	6476	2	3204	FGEPTSEQTGTAAGKTIAQTTPAVSWKP QDSSEQOEKLCCKNPCAMFAAGEIKTPT GEGLLDSPSKTMSIKERIALKKSSEED WRNRLSRRQEGGKAPASSLHTQEAGRS LIKKRVTSRESQMTIEERKQLITVREEA WKTRGRGAANDSTQFTVAGRMVKKGL ASPTAITPVAISAICGKTGTTPVSKPLEDI EARPDMQLESCLKLDRLETFLRLNNKV GGMHETVLTVTGKSVKEVMKFPDDDET AKFY
5668	13719	A	6477	250	5816	
5669	13720	A	6478	553	7399	NFNKKNLSFLGPFRQRKVSSQKEFSLED KEQLANHERGIDAQLLVALPKVAELRQI FEPKKKEFLMKRRIARRLEGIENTDQ PILLQSCGTGLVTHRLLEEDTPYMRASDP ASPHIGRSNEEEETSDSLEKQTRSKYCT ETSGVHGDSPYSGTMDTHSLESKAERI ARYKAERRRQLAEK YGLTLPDEADSEYL SRYTKSRKFPDAVEKRGKSKDQEESSR DASSLYPGTETMGLRITCAGESKDYALH

5670	13721	A	6479	380	999	AGAKGGGPGGRGMKKTNSLTPLLSAYR LLPVELSKGWGLGFSVCPFAPGLMAKG VSPCDTAVKRDNIH*VGGGV* ^K CP* ^R SS *WSGPV ^P ALTALFLVDNHEVYLWQGW WPIENKITGSARIRWASDRKSAMETVLQ YCKGEAPSNMPAARNRWGSPSGMRSQE TTPFFCACQPSIHKAQWQVDENPISFL KPFEDVIKFLD
5671	13722	A	648	1134	1633	PNPTGTMLMLARKWCPDGLQSLPDPVLGS *GEHLI.SCLCQERACSSNRPRQAWTG SQGSRVINFFFAKVGTCIQGNIQKAP KAPGTPPTPSYPGTPSRQLLWQVQPRP ALPASSPCSRHQLYLPRQAMSWLLSPAP SVPLDFSGASPVWATLCFHPRLPHR
5672	13723	A	6480	78	200	KKGSPPFPKVGQGGGNI.LLLEPLPKLK KFFCFKPPKRODYSSSSSSPSSSSKKK GVSPFPWPGV* ^T KEGGL
5673	13724	A	6481	179	384	FNSYMYMYVYVYVHICVFLYVGCICYRYI YLCIAVITCLMNEW** ^F KCKGNDARGYE KKLPSKYIEIKE
5674	13725	A	6482	76	205	RKKPEPEKTCFBNITGNTYCLSTYEHDS D*YVYNRT* ^L CAER
5675	13726	A	6483	2	774	HSYSHSHGHGCGSPAGDTEQGYKPVWV CSLFPDGHSGPV* ^Q PIHEPAQQRGGLPP WGAA* ^T PRAWRLA* ^R PRG* ^A ALPWA* ^T SPGRPASAPLAHTGSGCPSRTPRAGPSP/ IPIONIKRFPYGEAFVPSRAGPTVGVTRS FHLAPSLPPFPSS* ^L SPSLPRTTITSCTRAI LTPSS* ^Q KLLYPPSRPVLLVRRARPPAA APTSEEPERSPWETPHAAFSOLHELHET HSVAQKSDLLPAPEAM* ^P GSVSSRFLY
5676	13727	A	6484	2	732	GRRRPGPKPRAPGRDRDCN* ^P CCPP GAKSSAACCSDIRRAARAILGNPCSP LSAP* ^A P* ^N PLCRTVMGRSPMTLSLGSRT PTSLPAPFPWSPRFG* ^P THPRARSLGTL WPMPTTP* ^I QAATPWRR* ^P PAQTASTP HSLRGSSSSQFRLAPLRTISSRACMAGP TTPAAGALGPVTLGVLTPQAWASLRTP GRLLTSLSPRQPLQORQWQQQQQLQOQ PRPLWQPCRHRTRI
5677	13728	A	6485	2	338	CTTAIPTPEEMTRLRSMNRLOINVDCA LTEVDLLQSRGNFDPKAMNFYDNI* ^P G PDVPPKPSKKGPTDSEPKTSSGPCSNIGC LLSCKFFHACSRFQNPICHIQSTLAA
5678	13729	A	6486	84	300	RVGARGKMTALASQGLPLMCQGLPA *AVEAANKGDVEAFAKAMQNSKPEQI* GDTKDKD* ^K EDLSLD
5679	13730	A	6487	91	668	SRAQVVLHCVLREWAGRRSPAPSPW PVLHVDPDQSWQLSSVALGCSPGWSSAL AWLFQALGMFSAALASQGLPLMCQF GLPAEAVEAANKGGKVAAPGTPTPEPG AGSIPVPLDLQKW* ^G GKGHSPSALDPI ALIPSGFARVRHHLVSLTCS* ^D VEAFAKA MQNNAKPEQKEGDTKDKDEEDMSL D
5680	13731	A	6488	1	414	LQPGPAGAQQVLA/SV** ^P PEIMAPTLA NADVQERLLPYLPSGELSPTADENQNT LTLAPSSQALGMFSAALASQVGAFF MCQFGLPAEAVEAANKGDVEAFAKA MQNNAKPEQKEGDTKDKDEEDMSL D
5681	13732	A	6489	205	553	LSRPRHHKASTTGAQMQRTRSMRQEP EKAILTLRGREPTPRAPQLVPSVSSWL FLSLHSIAQTPLFHTHSTHTPSQALPSQ APVPVPQHPPHPIE* ^A LSPDNLSMILKSP

5682	13733	A	649	1	370	QRLAEMSNAIERKHATKMTYOPTNGTL TSGYVADRVRKHHSGGEEFQAQKQEP HPGTSRQ*QTRVNLHSLPDPEMHEQTVF RGMYRK1.GGWKAGPEGTFYDIPRYVTA YTFATHRPADIRAM
5683	13734	A	6490	3	347	SFFVFLRRSLAVAQAQVQ*RNLSGLQPP PEFKRFSCLPSGWDYRRPPRPFANFLY F**RGVSTMWQGWRSRTPDLRGDLAIL GSPKVLGMTGREPPCLGFLNGLTFLPEIS
5684	13735	A	6491	280	406	FFVFLGETGFHRVSQDGLNLLT*SAHLS LPRCWDYRREPPH
5685	13736	A	6492	1665	1787	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5686	13737	A	6493	1431	1553	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5687	13738	A	6494	1740	1862	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5688	13739	A	6495	1173	1295	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5689	13740	A	6496	1027	1149	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5690	13741	A	6497	631	744	VIEHLSQDGLDFT*SAHLGLPKCWD YRREPPRPVH
5691	13742	A	6498	166	352	IFFVFLVETGFHHVSQDGLDLT*STRL GLPKCWDYRREPPRPAPSSPIHTVAPIQ YTHP
5692	13743	A	6499	2250	2372	FFVLLVETGFHRVSQDGLDLT*SAHL GLPKCWDYRHEPP
5693	13744	A	65	1586	1775	
5694	13745	A	650	1	222	
5695	13746	A	6500	150	368	EKELAFFPQGEOMOGNGL*KLPPPLR* DFSCLALPRGNGRGAAPPSTNFGLGG NGVYPSGPGGFETPDLK
5696	13747	B	6501	174	350	MDEKTKKAEMALSLTRAVAGGDEQV AMKCAIWLAERQVPLSVQLKPEVSPQD IRFLM*
5697	13748	A	6502	1	498	EFRAPGLPGRTRRRPARRVAGSGGPG*G TIFPAPPPSPAPLPQPLSLPCKPLPLRR TGASREERGLCLETRDARGAPASGGPPG LGTPLRGVRASEFPRFFPRLPVPFPAPS ADLSRRPLPSHRPTQDPLVIGQCDASRL PROQRGTHRAWAAPEATRPG
5698	13749	A	6503	919	1761	RAFSFNREEPTADEQGLPVSAGRPVAVIA AVPSWHARGTERRAPGRD*HHPHLG AQPSAALLGPL*HCGHISAGGRREAGNI PGRKIYPPPGFYGSNNQHQAYIKLSD A/RSLTR*IQSSMTSCRVL*GPSLPSAGS SPGLGMSCLTSGTSCGYMTSWP*PFTDA DLLCSRDVSVRAGSPGL*L*HGLGPPPV /SPRSLRTCPMRH*SAEQETFLFSFPHNL LGRPLPNSKLGRQPLLSKLSWHQPSR GLIWCCGSGFDFCGLKIEQKMS
5699	13750	A	6504	131	575	VFALKPGTPGALPQVGVLRDLERPGWV VSGRPFPASSHLGLVPFPAPKCGTLSRR PLPSHRPTQDPLVGTQL*CFPTAAGTAT AHTGLPRRKPHRPWLSCSVSPRLFPGD PEVSIFPRKARSPPGEWGTATPDGREDEQ SRGNP
5700	13751	A	6505	2	291	HEPOLNSNNVALHGAVIPGPPFLGACIN LMNFMVALFIPEYKIARGVQKHITYKH GSLNTNP*RGSEDEIEPLLDSTIWELFSF EEPNGQCP
5701	13752	A	6506	1	267	PRFKLFPCLSLSS*DYR*VPAITPG*FLY FF*VKTGFHHVGTGLELLTSGDPPTSAS QSAGITGMSHCTWPISFLYLWHTGGKKK EC

5702	13753	A	6507	1	216	HEWMGTRVGEWMDWEKGEWKMDGK VDK*MNGWMEGCLYQWLNTIELCQELI PYTCLCLFSGWYIFKQSILD
5703	13754	A	6508	74	356	
5704	13755	A	6509	2	375	RHEVKPOWTPG*DTDHLNLSVALGPTR QPGRRQPEGTVPSIPASSIPASQSPQ SQPPNPSLLHPRTPTSLPIASLIPASPKT QTL*IPASEVGTVSNPTWTRKLGPGEAN RLSLMV
5705	13756	A	651	3	556	LPTEVAAISFSLAIGKHSATVSPWAGKP PSRILPHLGPI.LPQKASWPLRLPKPKF VKKRPKKFIHQSDRYVVKIKRNRWKPR GIDNRVRRRPFKGQILMPNIGYGSNKVTK HMLPSGFRKPLVHNVEQGLEVLMLCN KSYCAEIAHNVSSENKKAIVERAAQLAI RVTNPNARLRSEENE
5706	13757	A	6510	3	148	HERREVTVIRRGKGKQLRLVPTRWAGK GLLG*SIWFWSFLGHHWSVC
5707	13758	A	6511	50	255	LSMVSTVLVTTIMKLCY*K*IQSWLPC LTHTKTHHTHTHTHTHKVLHLLTCKQ YYAIGNVLSFY
5708	13759	A	6512	268	355	
5709	13760	A	6513	2	206	
5710	13761	A	6514	1	317	FFFFFPLFRQCLTSLPRLEYSGTISAHCS LSQPGSSDPPTSLRVAETTGTRHHAWL FVF*VETGLHHVVLAGELEMGSRNQPTS ASQAGITGVNHRAWLW
5711	13762	A	6515	2	210	KEKIFPSPGFKHPPPPP*KTPKKGKRIFFS PPRKNWPPQRIFKAPPPSSSSSSSSSA QI*SFNSP
5712	13763	A	6516	674	985	WFFFWLCHPGWSAVAWWHDLSLQPPF PRLM*FSCLSLLSNWYRRAPFLASFV LVDTAFRILGQAGLELLTSSDPPTLASQS AGITGVSHRTQLRSSFDS
5713	13764	A	6517	2	336	
5714	13765	A	6518	3	260	CLGLLVIFVCFNSJRDYRRPPLH*LIFV FLVEMGFYVYG*AGLELLTS*ARLLAS LRAGITGVSHRARPSRFVFGFGWDHG
5715	13766	C	6519	38	478	
5716	13767	A	652	2	395	
5717	13768	C	6520	33	317	MLTNHLHHWPPFNXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXTRCPRIITFFLRG*
5718	13769	A	6521	1	253	RRLFFFLRWFSFALVAQAREQWCNLG*L QPPSPGFKQFFCSLLNSWDYRRAPSCPA NFVFLVEMGLYIFKEWONDGRMICEAF
5719	13770	A	6522	2	411	GVLRLSSACQACPSSTSTGP*AALAGPT TTGSLCWAWTPPSSSFVSGSSREAPSGT ATISWTRNVATATSATTANRMAMCTSTR TARLLAPITNCSPRSKLTPTDPCSGGC RLTKDNTPLRTGQGRRQGTG
5720	13771	A	6523	2	222	THIGLPC*KDYKCEPPVHRQLF*F*VETR FHHSQAGFKLTSTGDDPALASQSGRITG VTTRTQLNGFYKVM
5721	13772	A	6524	2	261	VVVVSQYAAERPSVVAHACNPSTLGG RWLT*GOQVETSLASGYLPTLASPKCW DYRREPLRLACNFVVFVETRNLTLVFSV QQ
5722	13773	C	6525	203	355	MVALSTRGQVHLSGAVVPSSFLIFLIAPS GEQVEDIAMVAGYAVTSSVLL*

5723	13774	A	6526	2	671	GVGGVGRGMLPPAPFRAPAGFPSTILW PSPPLL*LPPLGLGTGLFPFGHGCPLSQS PWILFPWGGAAQAPPL*P*PRHPCPPHPR QSYGRQLPTFWLAPPSFCLSLVSSLSLIL SLSSVSRSVLL*HPPHHSFHLGFLS*AS PISGVGGIKAFPLRFQPPF*PLIPTTPLSL PKMGALWGRLL*HSTPAQAMGRAPFSG LAQASTYLLQPFQVVGVS
5724	13775	A	6527	3	477	AGKFPRLRSGHFPCFLTVESVCSGPFKPSV IPLSPCGASAPSPRFLLSPPGLVRAVLHC TLVLAS*APPASPPGVAVSPSPSVIWHPS RLPGSYGLCGQHLRDPFKPRSRTHFRAG VPLVSCSLPSNPLMTSGVQRPKPGLE NSLLQLADLNN
5725	13776	A	6528	1	381	
5726	13777	A	6529	1	2654	MSFFSTLKTALSKEKLAATQVVLICAL VGAGFAWERHQLKQAEIKGSLDQAVK ERDKSIMDLNQTIETMKNKAEQHFHSQEV KNESEQAKYADRQMERKAEVQKQLVA AGNVVRQIPADTQRLLRESISEFNADAD KGIFMSDKVTVKQTINKATSIYKIEQITV GKPGSEQYRRAFELADQLGLKHPDCIEH VFPTYADEQCTHVLTEEDFFSTEEREGV DRGIGVICSSVDELFPNVPVEYGGIGYQF LYEGDELKCYEHDIKSKAKELTVNSNNT VQPVALMRLLGVFPKPSKSGESKEIDA TKAFSOLKIAKAEGYDDIKITGPRLDMDT DFKTWIGVYAFSKYGLSSNTIQLSFQEF AKACGFPKRLDAKLRLTIHESLGRRLN KGIAPKRGKDAKGGYQGTGLLKSWRADS KLWELFQLDYRVLQHHALRALPKKEA AQAIYTFIESLPQNPLPLSFARIRERLALQ SAVGEQNRUKKAEQKLTIGYLDCSIEKK GRESFVIHTYLIPAIQPHIQDCPPLSHIL DFYSPSTHRSRASRSHQIESEAWLPIE AGNHQNDSGYNLNVIEIRVLVYAWRMPK HVVTHLAKDQLHKVAQRANRMLNVL T EQVQLQKDELHANEFYQVYAKAALAKL PLLTRANVDYANIIDIYEHGRGVPKYRDR YSERGVSKTVSTVSLAHAMRAHPHLLM EDLRILVIDLDPQSSATMFLSHKHSIGIVN ATSAQAMLQNVSRLEELFEFVPSVVP VDVMPASIDDAFIASDWRELCNEHLPQG NIHVLKENVIDKLKSDYDFILVDSGPHL DAFLKNALASANILFTPLPATVDFHSSL KYVARLPV/KLISDEGCECQLATNIEK QTNWNP
5727	13778	A	653	1	1055	TDRCVDPVRVPRVRVHSIVGTRLVSCQ LQSPQPNADQGLKTMRIAVICFLLGIT CAIPVKQAESGSSEKQLYNYKYPDAVA TWLNPDPSPQVRQNLGPTGFPSPKVR KGHGHGMIWDGWKVDVDPVDSQDS IGLGTLLDDVDVDSHQSDESHSDES DELVPDFTDLFATEVFTPVVPTVDTYD GRGDSVVYGLRSKSKFRFPDIQYDPAT DEDITSHMESEELNGAYKAIPVAQDLNA PSDWSRGGKDSYETSQDDQSAETHSH KQSRLYKRRKANDESNHSDVIDSQELSK VSREHSHSHSHEDMLVVDPKSKEEDK HLKFRISHELDSASSEVN
5728	13779	A	6530	1	945	

5729	13780	A	6531	146	4368	LGFLRLSEMPRKQGDYRTSDMEIRGR VEQRVGYTIEQINHRDVFGRRLRRAED VPPPVIGVAAHKGGVYKTSVSVHLAOD LALKGLRVLIIVEGNDPQGTASMYHGW VPDLHIIAEDTLPPFYLGKDDVYTAIKP TCWPGLDIIPSCALHRIETELMGKFDEG KLPTDFHMLRLAIETVAHDYDVIVIDSA PNLGIGTINVVCAADVLIVPTPAELFDYT SALQFFDMLRDLKKNVDLKGFEPPDLAI LF
5730	13781	A	6532	820	2011	TTTTVRLPCRSPPKRIKALRSQRLGLPM MRVPSFRLRVTSPTFMKSLTWQVHLLVL MLLVMFWTCNPSVCTASYAAMCWW QAFMAPAKPQPSRWKTSKARMYQSQK VAKTSTLTLSLLITVPAAYFTRLLMLL LPLMRVPSFRLRVTSPTSMKSLTWQVHL LVLMMLVMFWTCNPSVCTASYAAMC WWQAPMAPAKPQPSRWKTSKARMYQS EKVAITSTLTLSLLITVPAAYFTRLLML LLLPLMRVPSFRLRVTSPTSMKSLTWQV HLLVLMMLVMFWTCNPSVCTASYAAMC WWQAPMAPAKPQPSRWKTSKARMYQS YQSEKVALTSTLTLSLLITVPAAYFTR LLMLLVSKSLCTCSLNYNIGQIALSFSA PDKGTETAIERGANGDVLDMQSVGVYSQ LRRRYVIVASSDGTSTATFKMEDFEQG NVPIRKGRTNIYVSRKSVVDNNGSGSLH SFTNAAGEQITVTCSLNYNIGQIALSFSA APDKGTETAIERATD DACTFIPVTRDQSDI YEVFNVAGSSFGSYAAGDVLDMQSVGVY YSQLRRIYVIVASSDGTSTATFKMEDFE EGQNVPIPKGRKNYVNRKISVDNNGSG SLLHSFTNAAATADACTFIPVTRDQSDIY EVFNVAGSSFGSYAAGDVLDMQSVGVY SQRRIYVIVASSDGTSTATFKMEDFE GQNVPIRKGRTNIYVNRKISVDNNGSG LLHSFTNAAATADACTFIPVTRDQSDIY VFNVAGSSFGSYAAGDVLDMQSVGVYS QLRRIYVIVASSDGTSTATFKMEDFE GQNVPIRKGRTNIYVNRKISVDNNGSGSL HSFTNAAGEQITVTCSLNYNIGQIALSFSA KAPDKGTETAIERGSST
5731	13782	A	6533	1	3039	MLNVLTEQVQLQKDELHANEFYQVYAK AALAKLPLLTRANVDYAVSEMEEKGYV FDKRPAGSSMKYAMSIQNIIDYEHGRV KYRDRYSEAYVIFISNLKGGVSKTVSTVS LAHAMRAHPHLLMEDLRILVIDLPQSS ATMFLSHKHSIGVFNATSQAQMLQNVSR EELLEEIVPSVVPVDVMPASIDDAFIAS ASDWK/ELCNEHLPVLKLSIDEGCECQL ATNIGFMSKLSNKADHKYCHSLAKEVFGG
5732	13783	A	6534	1	2607	
5733	13784	A	6535	1	4557	
5734	13785	A	6536	3	2847	ELHAYAMSIQNIIDYEHGRVGPYRDRVL AHAMRAHPHLLMEDLRILVIDLPQSSA TMFLSHKHSIGVFNATSQAQMLQNVSR EELLEEIVPSVVPVDVMPASIDDAFIAS DWRELCNEHLPQONHIAVLKENVIDKLK SDYDFILVDSGPHLDAFLKNALASANILF TPLPATVDPHSSLKYVARLHELKVLISN EGCECQLATTIGFMSKLSNKADHKYCHS LAKEVFGDGM DLVFLRLDGFERCCGES
5735	13786	A	6537	1	4236	
5736	13787	A	6538	65	316	
5737	13788	A	6539	54	265	

5738	13789	A	654	2	1103	PGRPTRPPTPGGGRAQHRLVQTL SQAS CSLLSQPTTRGKLTMMRIAVICFLLGTC AIPFKQADSGSSSEKHRYNKNYPDAVAT WLKP*PIFRRQNLLGPTEWL CPLKETNGL *TRRTL SKLRSNGKAMDHMDDMG*WK VDGWTMWDSQSDSDSNDSDDVDDTD DSHQSDSESHHSDESEDELVTGSTDLPAT EVFTPVVPTVDITYDGRGDSVVYGLRSKS KKFRPRDIPKYPDATDEIDITSHMESEELN GAYKAIPVAQDLNAPSDDWSRGRKDSYE TSQLDDQSAETHSHKQSRL YKRKANDES NEHSDVIDSQELSKVSRFHSHEFHSHED MLVVDPKSKEEDKHLKFRISHELDSSASS EVN
5739	13790	A	6540	2034	2174	EMPGHARCYPADQQR YRFLPGSEVLP/ASI NVAWRPVDNLNLCSTRSPE
5740	13791	A	6541	33	285	
5741	13792	A	6542	1	2448	
5742	13793	A	6543	1	2979	
5743	13794	A	6544	1	3276	
5744	13795	A	6545	1	67	MTKCSHL CNNYLFSWLRDNGILIATGER RNVKQEQYISRGYFTLKETVIDTSNGSRI SFTTRITGKGQQLWMLKRLLDADVVRITTS JVM LAKVTF LSCITMSDFTS GYELACFV TISGLRSRAGHILSQCANLAATTSEYFIH KPHRLITAETGYSQSTV VRAFREAVNKG ILSVEIUIODIRERRANLYRFTPSFLAFAQ QAKNALIESKLLKISSAATKVAVLAKITL ALFNFLSTPPCQNDTPSPCQDDVAIKNK KSQVKKTKRSVSGGAGTTSLKLT SWIA KAKAKADNRLRSK KRTQKHEFKQKVEA AARKYAYLKNKRSPDIGISNFDNLPHC MTVNEALNAVLAKNKDNEQWGA VAGA YIADITDGEDRARHFG LMSACFGVGSV YMQTRYRGKLVSQGQFVQMILTPR DAD GTFTITSDSEIVHYHYGPKDLVITLFIYFI TILHAVVQGEYILDKISKRLHL SKVKHSH FNESGQLVVFHFTSVIWC FYVVVTTPQA LTRVLNCLLALGSNAAVMGECGFAQLQ QTWASALADYAAA HKSMRPEILASCH QILENCLIESTRNSMDATNK/ADAGICRS RDDERF*RCYASAFIPRDDPACSVGGSY R*CVITEF
5745	13796	A	6546	1	3435	
5746	13797	B	6547	9377	1600	MSDWSRVTGMKVHASAVAAPN*TGRII ARNKGRRITPSETLIISAATDSSIALLVAS MLLRVDSL SIAISVPLSGALENDRAI
5747	13798	A	6548	3	127	LFHPCQDSQQHH*CVCCRLTGHGAA*V HGPCQAVQTYRASH
5748	13799	A	6549	2	323	
5749	13800	A	655	3	267	TINPKLLKNHARGTPEVPNQKJHWSPKQ KPLLTKNPKNNLPWPVPIIPFPEEKPR KFP*TPKRRI*TKIGPLSPNGYPTKPPF
5750	13801	A	6550	2	94	
5751	13802	A	6551	171	632	
5752	13803	A	6552	3	325	
5753	13804	A	6553	2	171	

5754	13805	B	6554	104	1164	MCDEDETTALVCDNGLVKAGFAGDD APRAVFPISVGRPHQGVMMGMQKDS YVGDQAQSKRGILTLKYPIEHGIITNWD MEKIWHHTFYNELRVAPEEHPTLLTEAP LNPKANREKMTQIMPETFNVPAMYVAI QAVLSLAYASGRTTGIVLSDGDDVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATGRHPSILPWKRATSCOTQGV ITIGNERFRCPETFFQPSIGMEVGGHTR PPYNSIMKCDIDIQEGPCMPNTVMFGGH PRLYPWEFADPHARKRTGAGTPGTHEE SKDKDSFAPRRSGKILG*
5755	13806	A	6555	1	308	LRPWC/GHLRT*AOYHTLRAARLDPNFA IA*MEAKATDGGPPPF/VRGFTIYFSPA NNRLHPRTEGGDRDLSDFISYLHVEATNP PVIQEV*PKKKKKQAQEDL
5756	13807	A	6556	2	589	AIRTAKEGKPFVMOEFSRGGKALERLQ DYFDGNLKRYLKSEPIESNDGVPKVVV AENFDEIVNENKNDVLEFYAPWCGHCK NLEPKYKELGEKLSKDPNIVIAKMDAT ANINVHSPYEVGRGFPSHILLSPKNKLN KKYEGGREL*FLAIYQREATKPPVVIQ V*FIPKYRRRRHQEDLLKPAQTPTL
5757	13808	A	6557	1	129	
5758	13809	A	6558	23	115	
5759	13810	A	6559	1	1582	GRGWRAVLGWSRRRSGLEPATVGSMA LLFLLPLVMHGVSRAMGTADLGPSSVP TPTNVITIESYNNMPVYWEYQIMPQVPV FTVEVKNYGVKNSEWIDACINSHHYCNI SDHVGDFSNLWVRVKARVGQKESAYA KSEEFVACRDGKIGPPKLDIRKEEKQIMI DIHFPSVFNQDEQEVDPYDPTTCYIRV YNYVYRMNGSEIQYKILTQKEDDCDEIQ CQLAIPVSSLNSQYCVSAEGLVHVWGT TEKSKEVCITFNSIKGSLWIPVVAALLL FLVLSLVFICFYIKINPLKEKSHLPKSLIS VVRSATLETPEKSYVSLITSYQPFPLEK EVCCEPLSPATVPGMHTEDNPGKVEHT EELSSITEVVTTEENPDVVPGSVHLTPIER ESSPLSSNQSEPGSIALNSYHSRNCSESD HSRNGFDTDSSCLESHSSLDSEFPNNK GEIKTEGQELTVIKSPPPFCYDKPHVL VDLLVDSDGKESLAGYRPTEDSQRNFI EISLSCOTL
5760	13811	B	656	197	404	EQQQLQAQHLSHGHGPPVPLTPHPSGLQ PPGIPPLGSGAGLLALSSALSQSHLAIK DDKKHIDAEHHRX*
5761	13812	A	6560	69	523	PLGCASSQISASRNTLCTTASSCCPOVL AHSKAAEYMTRWKYOQMPHSDRAL QSVFCAPFHS**LVALPTGHR*MTPAQFS ECFOATSGGSD*DFLAPSFVLPGLVPAP GLLLPLGPVHSRATMEEGQATHEELTVFI GLRPGVRGS
5762	13813	A	6561	101	1469	RTHPTFPHPGTGPTSAAPSGALEGTAGTI TSNEWSSPTSEGSTASGGQALDKPIDN DGEVWSPDIEQSFQOEALAIYPPCGRRIKI ILSDGKMYGRNELLARYIKLRTGKTRTR KQYSSHIOVLARRKAREIQAKLDQAAK DKALQSMAMSSAQISATAFHSSMRLA RGFGRPAVSGFWOGALPGAETSHDYK PFSQQTAVQPPPLPLPFESFAPGAPSPS APPAPPWQGRSVASSKLWMLEFSAFLE QQQDPDTYNKHLFVHIGQSSPSYLRPYL EAVDIRQIYDKFPEKKGGLKDLFERGPS NAEFLVKFWADLNTNIEDEGSSFYGVSS QYESPENMITCTKVCFSFGKQVKEKET EYARYENGHYSVRIHRSPLCEYMINFIHK LKHLPEKYMNSVLENFTILOVVNTRDT

						QETLLCIAVYFEVSASEHGAQHIIYRLV KE
5763	13814	A	6562	1	1290	
5764	13815	A	6563	604	1047	SNNRDNPSTVAYLSKETDVAKGWPH CLWVVAVAILVLEAIKIQGDFTVWT SHDVNGILGAKGNSWLSDKRLRYQAL LLEGVPLQIHTCVALNPAIFLPEDGEPIKH DYQQIVAQTYVT*EDLLEVPLANPDNL YTNGSSFV
5765	13816	A	6564	1	1410	
5766	13817	A	6565	510	755	
5767	13818	A	6566	59	411	SWPSDKQTLVVQRGQKMEQANHPDPTD HMSQLMWT/VLPQGFDRSPHLFGQALA ODLGHFSSPGTLVLQYVDLLLATSSSEA SCQOATLALLNFLANQGYK/LSRKAQL CLQQVKYLCL
5768	13819	A	6567	1	565	
5769	13820	A	6568	126	492	CNNSMTSLQVRLKVCPRCPTSM/LPIRI *KLPQVCLDLL*IREGEWDMYPCWAKFP CPYSLKGT*PIAWGILWSFGDFAY/IPLM QQQKH*FSSQNTRRNEEGQI*WPLMH SKPAPLPV
5770	13821	A	6569	1	342	
5771	13822	A	657	2	651	LSRVLEFEFQFLQAQYHSLKLECEILAS EKTEMRHYVYMYEMSYGLNIEMHKQ TEIAKRLNTICAQVIFPLSQEHQQQVAQA VERAIQVITMAELNAIIGVRGLPGLPPTQ QLQAQHLSHGHGPPVPLTPYPSGLQPPG IPPLGG/SAGLLALT/SALDGGSHLAIKDD KKHHA*HHRGDRPGKPD*DFVLILLQC CKVVCIAKESPNLYREOT
5772	13823	A	6570	55	219	LGNKHLGSDPRGSWVTGEYIFLRPPIA A*GRQ*DFLPPELWWTSLNNSWAFS
5773	13824	A	6571	339	1371	ASHPLRGLLCPSPFNPCPLLHGTSR PLKG*GVRAHSTGLAGSSTCRPLRDLPLG EASWAPESAQGL*IHQSALCI*KLKLPAG QRAKLGDRLDIPDRKSSSTILGRAGDLQ PAMPEPPTLSVGSCAAQASPMNAPCST APSPIDHSRAEECGRIARDWQAAPPAGP CGIHWKPAGLLSLLRDCKYTNRHSVSS SRFANTNQHPASSSGFVNAPIDTLYLANL VGTWRTFVASSGIVNAPISTLSKQTTWL YQSAGCGKESTOASGAQTGGTSFKSLET TGSIEASSAKHCTELFSRFTFNPDVSPS DGVVGDTAGTVWPGVLKGEPCHLGTCY RCVLDPHPTPESDITQGIHVQVCYMSLT HDADVCDTNDPVTHTNTKKYISTEFTS NNPELRSEDETFRALKWKITSEQTIGE MDFVICNDPDPDSALYQNLGSKMQDTV SLSVFSPVAA
5774	13825	A	6572	749	1002	OLKKGTNSLLVSKSPVWIPGTGLTQMGM TGVANIC*PVF*KD*GELGKNYAMMS TITQKKEENPAFLKWLWEALRYTFLSP
5775	13826	A	6573	1	1632	
5776	13827	A	6574	307	543	

5777	13828	A	6575	1	1149	
5778	13829	A	6576	119	409	GDICHHHLGTPVGSLSLSCSR*QVA*VG AVTAATIGTGILLQQLAFVNCNWLLSG SSENFPRSAJLCFKSEREKGTCIQVGNPS PTTACKGHN
5779	13830	A	6577	1	2433	
5780	13831	B	6578	97	1065	MHAVHTSLLVERTILTTRKSGSTLYQPL RPGAHLGLQDIVKRFKAQALIRKCSSPC NTPILGVQKPNQWRLVQDLRLINEAVI PLYPVVPNPYNLLSQPEAEWFTVLDLK DAFFCIPLHSDSQFLFAFEDPTDHTSGLT WTVLPFGFRDSPPLFGQALAQDLGHFSS PGTLVLQYVDDLLATSEASCQATLD LLNFLANQGYKTHSRDSDAPVGFDRHL VATEKIPRGREPLSSLAVYTRGRPTRTGA RRRTIVSRIRDRFFRYRYLAQREPPLYQQ SLLIHLQLDSQPALS VIGKVPNVVELTP NFGTAAQV*
5781	13832	A	6579	1	2403	
5782	13833	A	658	455	1033	GLYFGKVGVEIVQVKADELKALIAFFPL SSLSFLAPFVCLNLLFCFRLPLSLCLFSP GCRLLHRHHCHHYLLLLLLLFSHHHHQQ QQQLQAQHLSHGHGPPVPLTPHPSGLQP PGIPLPGGSAGLLALSSALSQSHLAIKD DKKHDAEHIRGERPGKPD*DFVLILLQ CCKVVCIKESPNLYREQTMR
5783	13834	A	6580	1	2838	
5784	13835	A	6581	1908	4698	SNDRTEDDCGKHPFMSPPTEPVVCLII EGQEIDFLDTGTTFSVLPLCGLRLSRSV TIQGLGQPVTRYFSHLLSCNWETLLFSH AFLVMPESPSTLLGRDILAKAGAIMSKT GNKLPICCPLEGINPEVWALEGGQFRA KNAHPLQIRLKDPISEFPYQRYPLRPEAH KGLQDIVKHLKAQDSVRKCSSPCNTPIL GVQKLSQWRLVQDLRLINEAVIPLYPV VRNPYTLSSQVPEAEWFTVLDLKD
5785	13836	A	6582	1529	2945	
5786	13837	A	6583	3	154	
5787	13838	A	6584	3	425	
5788	13839	A	6585	3	223	
5789	13840	A	6586	3	330	
5790	13841	A	6587	50	1740	RSPHCCLTAHLTMSAARLTMMWEEVT CPICLDPFVEPVSIIEGHSFCQECISQVGK GGGSVCACVRQRFLLKNLRPNRQLANM VNNLKEISQEAEGTGGERCAVHGERLH LFCEKDGKALCWVCAQSRKHRDHAMV PLEEAAQEYQVRPKRHLEKLQVALGELR RKQELAEKLEVEIAIKRADWKKTVETQK SRIHAEFVQKKNFLVEEQRLQQLLEKD EREQLRILGEKEAKLAQSQALQELISEL DRRCHSSALELLOEVIIVERSESWNKLD LDITSPELRSVCHVPLGKMLRTCAVHIT LDPDTANPWLILSEDRRQVRLGDTQOSIP GNEERFDSYPMVLGAQHFGSKHYWEV DVTGKEAWDLGVCRDSVRKRGHLLSS KSGFWTIWLWNKQYEAAGTYPQATPSHL QVLPQCVGIFLDYEAAGMVSFYNTIDHGS LIYFSECAFTGPLRFFSPGINDGGKNT APSNPLVPI.NIGSQGSTDYWMAFSGTL LSPHWAPASSATKPWPLFPHGTLLEPLSS AEASRDPPQASFSREVTSPIINAPDGVV
5791	13842	A	6588	2	472	
5792	13843	A	6589	1	239	QCCSGGTHGNPAIGDRMOKQILPWAPA QMKIRFMAPPERKYSVWLAAPILASLSTS SRMWISKQYDESGPSIVHRKCF
5793	13844	C	659	178	360	MERPERKIXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXS

					YYSFKNLI*
5794	13845	A	6590	1	834
5795	13846	A	6591	1	702
5796	13847	A	6592	1	1623
5797	13848	A	6593	1	1132
					MEEIEAALVIDNGSGMCKAGFAGDDAP RAVFPFSIVGRPRHQGVMMGMGQKDSYV GDEAQSKRGILTLKYPIEHGIVTNWDDM EKIWHHTFYNELRVAPEEHPVLLTEAPL NPKANREKMTQIMFETPNTPAMYVAIQ AVLSLYASGKTTGIVMDSGDGVTHTVPI YEGYALPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIKEKLCYVALD FEQEMATAASSSSLEKSYELPDGQVITIG NERFRCPALFQPSFLGMESCGIHETTFN SIMKCDVDIRKDLANTVLSGGTMTMPG IADKMQKEITALGPSTMKKILAPPERKY SVWIGGSILASLSTFQQMWISKQYDESP GPSIVHRKCF
5798	13849	B	6594	635	646
					MCDEDETTALVCDNGSGLVKAGFAGDD APRAVFPFSIVGRPRHQGVMMGMGQKDS YVVGDEAQSKRGILTLKYPIEHGIITNWD MEKIWHHTFYNELRVAPEEHPVLLTEAPL INPKANREKMTQIMFETPNTPAMYVAIQ QAVLSLYASGRTTGIVLDSGDGVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATAASSSSLEKSYELPDGAGHH HRQRALPLPGDPSFIGMEVGGHFTRPY NSIMKCDIDIQEGPFMTTFMSGGTHDVP WESLTAACKREITRAGTPAPMEDQDSFAP AGAQNTRVWIGGSILASLSTFQQMWITK QEYDEAGPSIVQPMILLDTLHLQARDFS RTTNLLNGGGG*
5799	13850	A	6595	1	1284
					MGDTPROFGGARFRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFPFSI VGRPRHQGVMMGMGQKDSYVGDKAQ SKRGILTLKYRIEHGIVTNWDEMEIWL HTFYSELHVAPEEHPVLLTEASLNPKAN HEKVNQIMFETPNTPAMYVAIQALLSLY ASGRTTGIVMDSGDGVTHTVPIYGGYA LPHILHLDLAAGPDLTDHLMKILTERGYS FTTTAKREIVHDIEENLCYVALDFEQEM AMVASNPLEKS*ELPDGQVITIGNERF RCPEALFQPSFLGMESCGIHETTFNSIM KCDVDIRKDLANTVLSGRTPCTLGIA DRMQKEITALAPSTMKMKILAPPERKYS VWIGGSILASLSTFQQMWISKQYDESCP SIVHRKCF
5800	13851	A	6596	1	370
					ETESRSVAQAGVQVHNLGSLQPSPSGFK RFSCLSPSNWDYRHPSPCANFCIFVET RFHHVQAGLKLITSGDPTLAS*HAGIT GMSHCAWPSLHWITLLFAKCPRRWTG QVLLAAIFSQ
5801	13852	A	6597	2408	2810
					IHHTHTHTHTHTIFFKRSFALVAQARVQ WRDCLSLKPPPEFKQFCSLSLPS*DYR CPFFCPANF/SFFVFLVETGFHHVQAG LKLLTSSDSPILASQNAAGVTGMSHCAWP QSNKYYQNNFTMIQEQQQKE
5802	13853	A	66	275	577
					GGWITRSVGVQDQSGQHSVDVSL/LKKYK KLTKYGGVLL*SQLSRRLRQDNHNMNPG GRSCS*PRQHHCTPAWTVTRDSISKKKK KKKKKKKKKKKALLEG
5803	13854	A	660	365	800
					INNVNLEFYMTDITCFLSYSLTLMSPHYL DVLLLSLLFLFHIAAGMHILTFINHDI*VV HSFYLR*HAMEITVYEFICLRIRYPFKAS KIFSMYNATVLFH*CDR*LGS*GILERS

					VGVC SVMVCIVYIRYVISSVDA*
5804	13855	A	6600	111	426 RIYKDRAGSPAHSQCQRDPLRTPSPRGPH SLPWGQAAQSDAEATEATHMGAPSCCLGP AQLPLEPGGRGSHITTSVDSRHDSVEGR DSRQTESPWNEN*NLIDYGLS
5805	13856	A	6601	1	2219
5806	13857	A	6602	1	221
5807	13858	A	6603	2	217
5808	13859	A	6604	101	456
5809	13860	A	6605	62	558
5810	13861	A	6606	2	178
5811	13862	A	6607	1	194
5812	13863	A	6608	59	132
5813	13864	A	6609	3	104
5814	13865	A	661	2	58
5815	13866	A	6610	2	620 GFRPGDPRVRETVGLKPGMLVTFAPVN VTGGVKSVMHHEALSEALPGDNVGFN VKNVSVKDVRRGNVAGDSKNDPMEEA AGFTAQVILNHPQISAGYAPVLDCHTA HIAACKFAELKEKIDRRSGKLEDGPKFL KSGDAAIVDMVPAAPMCEVSFDYPPFL GRFAVRDMRQIVAVGVVIKAGDKKAAG AGKVTKSQAQKAKAK
5816	13867	A	6611	293	384
5817	13868	A	6612	39	543 QVAMGNLSGLRLAAGSCFRLCERDVSSS QRLTRSSDWKGINGFCYTKPTGKVPGAP IPALTNRVPFNTPKPYDWOQKRPLIWSRS PSKMEDEIPQISLPLEDALNACQRTKMP SERSSLSQWICPDGGMDCIFMVEIGQK AA\QRHDDFTQA*TELEKARLERGQQL
5818	13869	A	6613	1	194
5819	13870	A	6614	71	1145 NLRREPTNSRSLTVGATAGSITMKRLVC VLLVCSSAVAQHLHKDPLDHHHLWK KTYGKQYKEKNEEAVRRLIWEKNLKFV MLHNLHSMGMHSHSYDLGMNHLGDMTS EEVMSLMSSLRVPSQWRNITYKSNPNR ILPDSVDWREKGCYTEVKYQSGCGACW AFSAVGALEAQLKLTGKLVLSAQNVLV DCSTEKYGNGCNGGFMFTAFQYIIDNK GIDSASYPYKAMDCLKQYDSKYRAAT CSKYTELFPYGR*DVLEKAVANKGPVSV VADARQPSFLPLQESGVYYPDSICTQNV NHGVLVVGYGDLNGKLEYWLV*NSWGP \NFGEGEYIR/LWARNKGNGHCUASFPYSY PEI
5820	13871	A	6615	2	289
5821	13872	A	6616	2	125
5822	13873	A	6617	9	106
5823	13874	A	6618	2	505
5824	13875	A	6619	1	104
5825	13876	A	662	218	342
5826	13877	A	6620	1	109
5827	13878	B	6621	99	285 MPRKIEIKDFLLTARRKDAKSVKIKKN KDNVFKVRCRSLYLYTLVITDKEKAEKL KQSLPXX*
5828	13879	A	6622	239	449 NCGNQRTSLRHRPRTKMPNSCQDPRKIR TLVKFKVRCRSLYLYTLVITDKEKAEKLK QSLPFLAVKELK
5829	13880	A	6623	1	104
5830	13881	A	6624	1	109
5831	13882	B	6625	99	285 MPRKIEIKDFLLTARRKDAKSVKIKKN KDNVFKVRCRSLYLYTLVITDKEKAEKL

						KQSLPXX*
5832	13883	A	6626	239	449	NCGNQRTSLRHRPTKRMPSNCQDPRKIR TLVKFKVRCRSLYTLVITDKEKAELK QSLPPGLAVKELK
5833	13884	A	6627	2	129	YGPTHASGAMLRSCAARLRTLGAALCLP VGRRLPEASRDS
5834	13885	A	6628	1	289	
5835	13886	A	6629	6	418	RRLMRDFKRLQEDPPVGVSGAPSENNIM QWNAVIFG/TFKLVIEFPEEYPNKPPTVRF LSKMFHPNVYADGSICLDILQNRWSPTY DVSPLTISIQLDEPNPNSPANSQAQ YQENKREYEKRVSAIVEQSWNDS
5836	13887	A	663	527	665	
5837	13888	A	6630	3	330	ARRRLMRDFKRLQEDPPVGVSGAPSEN NIMQWNAVIFGIYADGSICLDILQNRWSP TYDVSSILTSIQSLLEPNPNSPANSQAA QLYQENKREYEKRVSAIVEQSWNDS
5838	13889	A	6631	51	418	
5839	13890	A	6632	3	141	
5840	13891	A	6633	1	581	HSDSAAAPGGGGAARDFFFTDRRGSC GACSTPARRRLMRDFKRLQEDPPVGVSG APSENNIMQWNAVIFGPGGTFFEDGTF F*LIVIEFSEYPNKPPTVRFIPKMPSP NVYA*WVGICLDILQNRWESQHMDS FLSLTFNSVSGWDEPNP*QSSPIAQAAQL YQENKREYEKRVSAIVEQSWNDS
5841	13892	A	6634	2	266	YCOPL*SVWVARNPPGFVFEFEDPRDA AGVV*ELDGRITLCPG*PSWGHJP*DDYC RRGLPPRRRPPRRRNLSCSRSLYSPWT LSL
5842	13893	A	6635	3	164	
5843	13894	A	6636	1	947	IFLVFFITEMHRDSCPLDCKVYVGNLGN NGNKTELEAFGYGYGPLRSVWVARNPP GFVFEFEDPRDAA**YLCPLRLTCCG RVRVELSNGEKRSRNRGPPPSWGRRPRD DYRFPSMLFSLSLSLNLQIGSSHLDRPHI PQSSAQLFIYQMSSQQLQQPSANKKAG KIHINTFFANQLNPTATSGQNLFRQILPGP SVRAQLTFTISSLLKPKTNLQEGEASLAA GAGPFLIEGEERDRCLGREITSRPDPSLGL VVDLQGMKGNRRQFAREVYVRKLLHLT GVCTENFKFCLRLHKLGAFLRCFSCSNL FVS
5844	13895	A	6637	1	282	
5845	13896	A	6638	116	561	PLDLEMHRDSCPLDCKVYVGNLGNNG NKTLELEAFGYGYGPLRSVWVARNPPRP LAFVFEFEDPPRMQLDAVPRS*DGKNTNV ACPCKEWELVRMGEXSRNRGPPPSL/ WGRRP*RDGFIIRREGVPPITLFGSRPRGG RFLFAARSRLS
5846	13897	A	6639	126	376	VLLARLQANGANTVELSAEWTFFSPGYV GSVLPQHREPNAL/CLSFSKFRVLGSAF FLINRRTASNCVNRYLCLAAATWRAVLPL
5847	13898	A	664	1233	1706	CLVFWLLYYPGQLQPFHILPHSLGSGQQ SSEFSAATPFLAEGRREARFCQAGLA RQAWRPHARLPGPAAPLAAPSLAFLPTG RSGRWPLMLCAASC*SPSPAMSVYPQRR LGQGAEDSEGGPVSRGCRAPQORPLA APGEQTAARTQAICLIW
5848	13899	A	6640	464	781	AFATKDRQLGSSKKRRMSSRFASSAAK CRAVRPLLRSSRPPVMPPOPVVSSITK LGSRLGRHQACRG*SQRAR*SGLTGPT HMEPNKVRSTGLKFLPAQQS
5849	13900	A	6641	201	318	EINLTNFCFSSRDVS*RESFPSRELHRIS SISLEPG

5850	13901	A	6642	1	1714	
5851	13902	A	6643	1	789	
5852	13903	A	6644	1	293	SPEMESHPTTQAGVQWHNSSLQPEIPGL KQSSHLSPSSWDHR*EPLFPWPKNTFKM LIL*IGFHVHIGNGTLYQSSINNVEGPLK RSQKDRSCGN
5853	13904	A	6645	1	252	
5854	13905	A	6646	1	1974	
5855	13906	A	6647	3	320	
5856	13907	C	6648	238	324	MADLPFLVEFSCFIIYFNCSFMFSQKK*
5857	13908	A	6649	1	1088	
5858	13909	A	665	598	1159	CRQTGVKIYDVWFFWLLYYPLQLPFIHL LPHSLGSGQSSSESAATPSI.AEGRREAA FRCGPAGLARQAWRPHARLPGAAPLA APSLAPLPTGRSGRWI.PMLCAASC*SPSP AMSVYPQRRLGQGAEDSEGGSVSRGC RAPGPORPLAAPGEQTAARTQASVYLL PHSPPLLSALHIHLLPPS
5859	13910	A	6650	1	368	
5860	13911	A	6651	3	243	
5861	13912	A	6652	24	288	
5862	13913	A	6653	2	272	
5863	13914	A	6654	965	2737	AASPGVLVCPQARTYIQLSPALDVQLTP LPTTGFAAIDLGRMLVLDSSDQVSA EALAHAYFSQYHDPEDEPEAEFGCGGR HKL.TLSLHLELTQOEVLSDWEAAGR PPPALPRLRSPSGSGPPAAAASGPRRW AAPGPAAMSSPPPARSGFYQEVTKTAW VRAGACAGCPAFPLSGPPSSAVDGRGT AKVAIKLYRPFQSELEFANPARVLCILN PMWPPQVIGHAEAGSV*QRSOPSHSYL VMPFMGTDLGKLMKEKLGALRGCAE ACHHAWEGGAQWPPFLCHRLSGVPPN PPQFPFQILDGLARQADSEMTGYVVT RWSHPVPLPTELTRAISVDIWSVGCMA EMITGKLCSCPGGSGGPDWPPSCVPL DLGADLDQLEIMKVADLGLGVGPSPL PTQAKNYMKGLPEWSVGPVVWPDAPS PAAVNLLKMLVLDLAEQVVTAGEALAH PYFESLHDTEDFQVQKATTDQPSLSDP HASPGHPGLGDVIAISSGATLTCGMAAV HTGPKVWAHRWPDWGVAFALQTRPP RLSPQVFLRPRGVGLGAALDPDGGWGA GRDL
5864	13915	A	6655	3	229	
5865	13916	A	6656	27	142	
5866	13917	A	6657	3	308	
5867	13918	A	6658	192	310	
5868	13919	A	6659	88	1506	ACGRFGFEGPEGGGRHRHVAARGPVG PRAGEGPCAAWVVGPGSAGTSLREG PGAGAPQRPAGGRASGRAARSPEAR EGAPSPVVGAPPAGSAGWAAPGAMSS PPPARSGFYRQEVTKTAWEVRAVYRDL QPVGSGAYGAVCSAVDGRGTAKVAIKK LYRPFQSELEFAKRAYRELRLKIMRHN VIGLLDVFTPDETLDFTDFYLVMPFMG TDLGKLMKEKLGEDRJQLVYQMLKG LRYTHAAGIHRDLKPGNLAVNDECELK LDGLARQADSEMTGYVVTWRYRAPEV ILNWMRYTQTVDIWSVGCMAEMITGKT LFKGSDDLQLEIMKVGTGPPAEFVQR LQSDAEKNMKGPLELEKDFASILTNA SPLAVNLLEKMLVLDLAEQVVTAGEALA HPYFESLHDTEDFQVQKYDDSFDDVDR TLDEWKRYVYKEVLSFKPQRQLGARVS KETPL

5869	13920	A	666	358	644	RRSLALSPSPECSDVISAHCKLCLPGFTPF SCLSLSSWDYRCPPRLANFFVFLVET GFHVRVSDGLDLLTS*SARISLSPKWDY RCEPPRPA
5870	13921	A	6660	71	921	
5871	13922	A	6661	2	310	
5872	13923	A	6662	5517	5831	
5873	13924	A	6663	1	625	CKFIRVMAHTRRLPLRRKKAHLMIEQ VNEGTVAEKLDWARERLEQVVPVNVQV GQDEMDIVIGVTKGKGKGVTSRWHITK KLPRKTHRGLRKVACKDGLKINNAST DYDLSDKSINPLGGFVHYGEVNDNFVML KGCVVGTKKRVLTLRKSLVQTKRRAL EKIDLKFDITTSKFGHGRFQTMEEKKAF MGPLKKDRIAKEEGA
5874	13925	A	6664	1	1261	MSHRKFSAPRHGSLGLPRKRSRRHRGK VKSFPKDDPSKPVHLTAFLGYKAGMTHI VREVDRPGSKVNKKEVVEAVTIVETPPM VVVGIVGYVETPRGLRTFTKIVFAEHISDE CKRRFYKNWHKSKKKAFTKYCKKWQD EDGKKQLEKDFSSMKKYCQVIRVIAHTQ MRLLLPLRQNAH*LM*IQVNGGHGCPRS WDWPPREGLKQOGTVDPVSLGRNKMID VIGVTOGPKGYKGGHPVWVHTQESCP KD/HHPRACRKGGHVVGAWHAPARVAF SVARAGQKGYHHRTEITKDIYKIGPG LSPLRTAKVIKGTIASTDYDLF*QEASTP PGGFVHYGEVNDNFVMLKGCVVGTKK RVLTLRKSLVQTKRRALEKIDLK/FDIT SKFGHGRFQTMEEKKAFMGPLKKDRIA KEEGA
5875	13926	A	6665	1	168	
5876	13927	A	6666	3	203	
5877	13928	A	6667	3	523	LQFFRRSEVMKNNHLLFWGVLAVFIKA VHVKAQEDERIVLDNCKKCARITSRIIR SSEDPNEDIVERINIRIVPLNNRENISDPT SPULRIRFVYVHLSDLCKKCDPTEVELD NQIVTATQSNICGWMIVPOSTCYLSTG NKCYTAVVPLVYVGGETKMVETALTPDA CYPD
5878	13929	A	6668	3	276	
5879	13930	A	6669	2	152	
5880	13931	A	667	55	288	PFKKGFFNGNLPPTTFGKLGKKNKPLNL FPGGPLLPHGGLKKGPGAPQVPLFLK PQTSP*GLREGPPPLKKFYLF
5881	13932	A	6670	1	936	
5882	13933	A	6671	1	1023	
5883	13934	A	6672	106	125	KYLEQCLKHGKSS*HSILQANFFASEND RAKMK*KPCFYKCF*AITFLREDWDYRR EPLRLAYPVYFLTCKIRIMYTHLKDYTG H
5884	13935	A	6673	3	155	
5885	13936	A	6674	3	266	
5886	13937	A	6675	5	160	RDLGSLQPPPPGFK*FSLRLPSQVQRC CVPSPWLLEQMITAWGASHRN
5887	13938	A	6676	1586	2220	
5888	13939	A	6677	3	441	
5889	13940	A	6678	1	91	
5890	13941	A	6679	2	226	
5891	13942	A	668	2	385	ARGEPTMELSHADTTNVKAAWGWVGA HAGE*GADVLRVLMVCLPITWTYFFYFD LSHGCAQVNGHGKKVADALTNVAVHV DDMPNSLIGLSELHAH*LLVDPVNFKLL NHCLLGLADHLLDEFTPAV
5892	13943	A	6680	3	187	
5893	13944	A	6681	2	209	

5894	13945	A	6682	2	702	FVSVPSVLLGLQFWRSERD/TARLQ SAR WRVERGRLLKELL SRQRP RRREVVGR EVCRTEMEVRA SLOKIVVSGDQLEKA MFEILRD FFKRPSLLVDCQSSSEISDHSF GDIPASQTNKPSLQLLLDPSNTEISTPRPSS PGGLPEEDSVLFNKLTYLGCMKVSSPRN EVEALRAMATMKSSSQYFFVTLTYPN VPEGSVRHILSLGGGEDVIASSGVELTV NSHCRHAE
5895	13946	A	6683	3	497	
5896	13947	A	6684	1	224	
5897	13948	A	6685	1	789	
5898	13949	A	6686	1	7500	
5899	13950	A	6687	1	8175	
5900	13951	A	6688	3	598	QCGOIRATTMAMSEFWPWQYRFPFFFT LQPNVDTROKOLAACWSLVSFCRLHK QSSMTVM EAQESPLENNVKLQREL PVE SIQIVLEFLRKKGNLEWLDKSSSLMFW RRPEEWGKLTYQVVSRSQNNSVFTLYE LTNGEDTDEEFHGLAEKPLLRALQ/CP YSREHKA EIIHCSDGDRGVQLGRDLS FFTS
5901	13952	A	6689	2	356	
5902	13953	A	669	787	896	LLYNIYC GEKKREERKD*PGQHGETPSL QKIQKLAG
5903	13954	A	6690	2	123	
5904	13955	A	6691	161	464	
5905	13956	A	6692	3	86	
5906	13957	A	6693	3	85	
5907	13958	A	6694	2	201	
5908	13959	A	6695	1	119	
5909	13960	A	6696	1	3414	MEPNDSTSTAVEEPSLEVLKTLDSQT RTFIVGAQMN VKEPKEHIRASVSPSEKQ RLIYQGRVLQDDKKLQENYVNGKVIHL VERAPPQTHLP SGASSGTGASATHGGG SPPGTRGPGASVHDRNANSYVMVGTFN LP SDGSAVDVHINMEQAPIQSEPRVRLV MAQHMIRDIQTL LSRMETLPYLQCRGGP QPQHSQPPPPAVTPEPVALSSTSEPV ESEAPPREPMEAEVEERAPQNPETPG PA
5910	13961	A	6697	1	441	
5911	13962	A	6698	2	180	
5912	13963	A	6699	1	143	
5913	13964	A	67	1016	1461	VSHSLSSPQFNHSLNRRPTRIPLSPQPK* GPAYSRPFVWTPAEPEALRWGRHRGP*K ARGSRPSSAHSWVRPGEAPHIRGTGAQP PTAVPCRR AHLGEDSTPGPGALGGVGF PSASPVPVPTT*QTGRRFPETQLRQQTGR GAPFRA
5914	13965	A	670	539	786	SIGRLRRVGHLSRSGVRDQPGQHGGTPSL LKIQKFAGHGGAF.YSQVLRRLRQENRL NSRRGGCSESGSHYTPAWVTE*DSI
5915	13966	A	6700	2	1069	SLVERLKMAASQAVEEMRSRVVLGEFG VRNVHITDFPGNYSYDDAWDQDRFEK NFRVDVVHMDENSLEFDMVGDAIAIAN AFRRILLAEVPTMAVEKLVYNNTSIVQ DEIL AHRLLGPIHADPRLF EYRNGDDEE GTEIDTLQFRLQVRCRTRNPHAAKSSDP NELYVNHKVYTRHMTWPLGNQADLFP EGTIRPVHIDILIAQLRPGQHDILMHCV KGIGKDHA KFSPVATASYRLLPDITLLEP VEGEAAEELSRCSFGVIEVFQVGKKV AQSCP TPRLDTFSREIFRNEKLKVVRL ARVRDHYIFSVESTGVLPPDVLVSEAIK VLMGKCRFLDELDAVQMD

5916	13967	A	6701	197	310	WLCYHYK*YDNWWHSMCFSKPLYPEIV SLNYILLKG
5917	13968	A	6702	3	67	
5918	13969	A	6703	3	517	
5919	13970	A	6704	150	840	GSLSPDMANKGPSYGMSSREVQSKIEKK YDEEELERLVEWIIWCCGPDVGRDGR LGFFVWLKNGVILDL*TTFTPDASKPV KVPEKPPSCSSSKTEPLPHFLKAAEDY GVRPKSNIFQDL*TSKKGKDMGSSSRGP LMAFGQLWQVTKNDGHYRGADPNWVY ERKFPQHKREFHRAQLOKQKACPLAL PDGAANRRGPPQARH*QGYGTTGLQIK LEAERAKP
5920	13971	A	6705	3	842	
5921	13972	A	6706	1	570	
5922	13973	A	6707	1	1437	
5923	13974	A	6708	3	286	
5924	13975	A	6709	172	364	FYLYLVMLCFIEPVKLLIVGAYIL*LLKT IHEFHQCFVDKSLKGRHFKEYVFFTL NMFHR
5925	13976	A	671	24	452	APSPDAMG/HSWGWKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKVLTSGLDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNLVTV LAHFGKEFTPEVQASWQKMTVGASA LSSRYH
5926	13977	A	6710	1	683	
5927	13978	A	6711	18	292	
5928	13979	A	6712	1	687	
5929	13980	A	6713	1	119	
5930	13981	A	6714	1	339	
5931	13982	A	6715	3	470	
5932	13983	A	6716	2	2942	TGAPAWPSRRRLDLPAGGMWRLRRAA VACEVCQSLVKHSSGKGLPLQKLHLV SRSIYHSHHPTLKLQRPQRTSFQQFSSL TNLPLRLKLFSPIKYGYQPRNFWPARR ATRLKRLRYLILGSAVGGGYTAKTFDQ WKDMIFDLSEYKWIWPDIVWEIDEYDFE KIRKALPNSEDLVKLAPDFDKIVESL KDFFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQLQEELLHTQLKYQRIERLE
5933	13984	A	6717	38	359	
5934	13985	A	6718	122	282	
5935	13986	A	6719	2	1010	
5936	13987	C	672	336	728	MGLPKTGHQHQHFQEQLESSSRIPHAGLS QQVQVHFRLGQRCPRLRSSQVLWHLPRK VSTFLPCALTLGVAHGWRQRTGQCQSC QRTSGSMGRQPGAFPGFLLQHLSTFTPL HRLCDSSILVLCMEMTHGRDL*
5937	13988	A	6720	326	513	
5938	13989	A	6721	1	1076	
5939	13990	C	6722	11	79	MLPILRHTFLRVTLRGKKACIL*
5940	13991	A	6723	3	198	
5941	13992	A	6724	1	432	
5942	13993	A	6725	123	336	
5943	13994	A	6726	1	227	
5944	13995	A	6727	1	131	MPVLLTSDEMHKSSVKAQFAKVDQQQA PKSVQLTVKTRDSTSNRNGSGPRSQAT DRICRTPYHFEDC*SGSTASQPVSSADS EDKRLNK
5945	13996	A	6728	3	364	
5946	13997	A	6729	2	197	
5947	13998	A	673	1	1254	
5948	13999	A	6730	2	421	
5949	14000	A	6731	33	294	

5950	14001	A	6732	2	670	
5951	14002	A	6733	1	171	
5952	14003	A	6734	1	789	
5953	14004	A	6735	3	363	
5954	14005	A	6736	2	379	
5955	14006	A	6737	116	373	
5956	14007	A	6738	1	164	
5957	14008	A	6739	3	122	
5958	14009	A	674	1	921	
5959	14010	A	6740	83	2455	
5960	14011	A	6741	83	2450	IRIAALDDFRSLTMSSTRSQNPGLKQI GLDQIWDLDLAGIQVYTRQSMASRY MELYTHVYNYCTSVHQFVGLLEYRLK EFLKNYLTNLLKDGEDLMDESVLKFYTO QWEDYRFSSKVLNGICAYLNHRWVRRE CDEGRKGIEIYLSALVTWRDCLFRPLN KQVTVNAVLKLEKERNGETINTRLISGVV QSYVELGLNEDDAFAKGPTLTVYKESFE SQFLADTERFYTRETEFLQONPVTEYM KKAEARLLEEQRVQVYLHESQDELA RKCEQVLEKHLEIFHTEFQNLDDAKNE DLGRMYNLVSRQDGLGELKLELETHIH NQGLAAIEKCGEALNDPKMYVQTVLD VHKYNALVMSAFNNDAGFAALDKA CGRFINNNAVTKMAQSSSKPELLARYC DSLKKSSKNPEEALEDTLNQVMVVF YIEDKDVQKFYAKMLAKRLVHQNSAS DDAEASMISKLKQACGFYTSKLQRMF QDIGVSKDLNEQFKHLTNSPELDLDFSI QVLSGSGWPFQSQCTFALPSELSYQRF TAFYASRHSGRKLTWLVYQSKGELVTN CFKNRYTLQASTFQMAILQYNTEDAYT VQQLTDSTQIKMDILAQVLIQLKSKLLV LEDENANVDEVELKPDTLIKLYGYKKN KLRVNNVPMKTEQKQEQETTHKNEED RKLIIQAAIVRIMKMRKVLKHQQLGEV LTQLSSRFKPRVPVKKCIDILIEKEYLE RVDGEKDTYSYALATLSGKGLDLCDFQ QIVHVGE
5961	14012	A	6742	3	318	
5962	14013	A	6743	17	174	
5963	14014	A	6744	3	711	LSSCLCGSGKAFGMPMTRILLSFVVLALF AVTQAEAGARLLVSKSLNRYAVEGRD LTLQYNIYVNGSSAALDVELSDSFPPED FGIVSGMLNVKWDRIAPASNSVHTVVL PLKAGYFNFTSATITYLAQEDGPVIGS TSAPOGGGMLVQREFDRFSPHFILDW AAFGGHDPPPSGIPLLLWYSSKRKYDT PKTKNLIWGFHKPSPSKSKAPLPKPK QVLSQTPKGYT
5964	14015	A	6745	74	471	
5965	14016	A	6746	1	1371	MAENDVDNELDYEDDEVETAAGDGD AEAPAKDVKGSYVSIHSSGFRDFLKPK ELLRAIVDCGFHEPSEVQHECIPQAILGM DVLCOAKSGMGKTAVFVLATLQQLPEV TGQVSVLVMCHTRELAPQISKEYERPSK YMPNVKVAVFVGLSIIKDEEVLKKNK PHIVGTGPRILALARNKSLNLKHKHFL DECDKMLEQLDMRRDVQEFMRMTPHEK QVMMFSATLSKEIRPVCRKFMQDPMEIF VDEDTKLTGLHGLQYVVKLKDEKNRK LFDLLDVLFEQNVVIFVKSVQRCIALAQL LVEQNPAIAHRGMPQEBLSRYQQFK DFQRRILVATNLFGRGMDIERVNIAFNY DMPEDSDTYVLRHVARA'GRFGTKGLAI TFVSDENDAKILNDVQDRFEVNISELPD EIGHLLPTLEQDTVEDSPHIGMLTVCSFQ

						GGGTPGWG
5966	14017	A	6747	2	139	AGSELGEGEEVGLSYL/DERNTNSEEGL RGEKRRKDAENDGEEDE
5967	14018	A	6748	3	270	
5968	14019	A	6749	21	301	
5969	14020	A	675	659	1601	SRASSVVPLALPSLQVTFHPLNEGTLAV ASSMLSSFQPEIGTNATVLGL*PIFLM*VL TSLTISSYFLWL/RGWLSGTTLLEALDCIL PPTRPDKPLGLPLQDVYKIGIGITVPVG RVETGVLKPGMVVTFPGVNVITVEKSV EMIIHEALGEALPGDNVGFNVKNVSVKD VRRGNVAGDSKNDPPMEAAAGFPAQVIL NHPGQISAGYAPVLDCHTAHIACKFAEL KEKIDRRSGKKLEDGPKFLKSGDAAIIV MVPKPGMCEVSFSDYPLGCFVVRDMR QTVAGVIAVDKKAAGAGKVTKSAQ KAQKAK
5970	14021	A	6750	4	366	RHRVSLYPSE/WSAVAQTHSSL*P*APWE LK*SF*LSLPSS*K*RSIQLCPG*LRNFFF/ CGRDGVLMLSMVLVFNSTQVMLLPOPP QVLGLRVELDDITFLKVSSLVFLCLKQGY KKRIWNP
5971	14022	A	6751	3	263	
5972	14023	C	6752	54	161	MLPSIQITVEKRMNVFQYSQDAGFSPVNI VFTIGR*
5973	14024	A	6753	161	1122	
5974	14025	A	6754	1	891	
5975	14026	A	6755	2	104	
5976	14027	A	6756	957	1285	HGTRRRRDVIMREFRSRVKVRVLTITDL LGSRLMCNNVSLVIN/YMDLPTNRN/ YIHRIGRGGSNLGGKGVAINFCYLKTR GLRDIETFLPILQWRRMPMKGLTLF
5977	14028	A	6757	1	716	
5978	14029	A	6758	2	835	FLSVLPISRALLTPKRAPKKKMAISGVP VLGFFIIAIVLMSAQESWAIKEHVIIQAEF YLNPDQSGEFMFDFDGEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPIINVPEVITVLTNSP VELREPNVLCIDKFIPVNVTVLWRNG KPVTGIVSETVFLPRENTLFR/KHFYFP FLPPTEDVYDFRVEHWGLDEPLLKHW FDAPSPLPKITTENVVICALGLTVGLVGI GTIFIIKGIKRSNAEERRGL
5979	14030	A	6759	759	1022	PTQGQRKGTSHLGGGADAGCTAAEEFG GTAAASGAGAGRAGD*HPGTGAQHHP PAVPGAPGEETQGQVQEEPAEQGWQ PHQPPF
5980	14031	A	676	1	1335	
5981	14032	A	6760	2	689	
5982	14033	A	6761	2	1011	
5983	14034	A	6762	2	151	

5984	14035	A	6763	3	740	RPIGEFRSNADYQYQLLRNCNVLLKIQIQL GLTFMNEQGEYPPGTSTWQFNPKFNLTE DMYAQDSIELLITSGIQKQHEEGBETQ YFAELMTSGVVLCEGVKWL SFHSGYD FGYLIKIL TNSNLEPEEELDFEILRFFPVI YDVKYLMKSKCNLKGGLQEVAEQLJE LERIGPQHQAQSDSLALTGMFAFFKMRM FFEDHIDDAKYCGIHLVGLGSSSYVQN GHRGMHMEEGSQOQSGPWTWK
5985	14036	A	6764	296	522	IWVFHNLKGLFEIFCCILKYFLLELLILE* KTKL*KHASFKNPNPSIQDMESSTTVHRS GLGSLCADVLSLQWL
5986	14037	A	6765	3	333	
5987	14038	A	6766	1326	1980	TSEASRQSERVDSAALSLSLRSSKCR PWGTARVARAGGCLTPLLRRFLETRPF TGPWDPGLGVTCWCCPPKRRILKSTPRPK FSVCVLGDQHCDEAKAVDAITFEVCLG DQVLSNANGFLSLSAKKYDAFLASESLI KQIPKILGPGLNKAGKFPSSLREEGQAIC YSSNTNLT*SSLPSQVCLAVAVGHVKM TDELVYNHILAVNLFVSLK
5988	14039	A	6767	11	713	EAMSSKSVSRDTLYEAVREVLHGTRQR RKFLVETVELOISLKNYDPQDKRFSGT VRLKSHSPALSFVSVCLGDARQH/CDEA KA/VDIPHMDIEALEKTSTKNKLVKK AGQRKYDAVFGPQSLLIKQIPRIPAPGL NKAGKFPSSLTHINENMVAKVDEVKS PIKFQMKKVLCLAVAVGHVKMTDEL VFNIHLAVNLFVSLKKNWQKCSGAL YYQEAPMGQSPKRLY
5989	14040	A	6768	2	277	
5990	14041	A	6769	1	336	
5991	14042	A	677	1	811	
5992	14043	A	6770	132	347	
5993	14044	A	6771	3	109	
5994	14045	C	6772	5	160	MGFEGGPKILNWKFKVKVXSXSLXKG QXESIFLNTXK VIRAGDTXKSVLG*
5995	14046	A	6773	52	310	YIIRTQTQISHHPLHYLGSACKKL CFKGKS YFIRGSSFRKGQGHHEERGLKYKKKTGEG V**KRTKKQTKTKTKTKYKLSRCCGNV
5996	14047	A	6774	149	333	
5997	14048	A	6775	1	1616	LFFFFFFLESTRFY*FFFFFFFTITQTFKG PLSPFFLLFFIKPLPQFFFL
5998	14049	A	6776	2	138	ASGHREVQDSYEA YGODDWN GTITSLK/ APPARPVK GAYREHPYGRY
5999	14050	A	6777	1	1212	
6000	14051	A	6778	3	150	
6001	14052	A	6779	2	1622	ASVATAPALPPPPTAARASVAASLSRSL DRTSQMQRDDPAARMSSRSRSGSM DPSGAHPSVRQTPSRQPLPHRSRGGG GSRGGARASPA TQPPPLPPSATGPDATV GGPAPTLLPPSATASVKMEPENKYLPEL MAEKDSLDPSTHAMQLLTAEIEKIQKG DSKKDDEENYLDLFSKNMKLKERVLIP VKQYPKFNFKILGPQGNITKRLQEET GAKISVLGKGSMDRKAKEEBELRGGDP KYAHLNMDLHVFI VFGPCEAYALMA HAMEEVKKFLVPDMMDDICQQLFLS YLVNGVPEPSRGRGVFVRGGAAPP PPPV PTGARGVGPARGALVRGTPVRGATRGAT VTRGVPPPTVVRGAFCA* RARTAGIQRIP LPPPAPE TVEEYGYEDTYAEQSYEGYE GYYSQSQGSEYDYDGHGEVQDSYEA LWPRTNWNGTRPSLKAPLARPVKGAY REPPYGRILKTKHEGENISYEQLLLDFL YLPGIPVALPTTDQGNWSKCFFRGSPSF SPTLIFFL

6002	14053	A	678	269	561	LSFVGSLSRLFTAGFAECPRFRFPAPNP RTPSTRNSAPDSQKGATWATAVQAAPR WT*ETGSNPWPTLAAPCSRSPRGPPASF GGPSASCKLCLK
6003	14054	A	6780	1	76	
6004	14055	A	6781	1	287	CFL*DRVLLCHPGWSAVAHNHSSLPQ*T POIKQFSLRL/SSS*DYRCTSPYLAIFFFF *FFCRKQSLATVPRITISNSWTPQAILWS KHVEITGF
6005	14056	A	6782	3	64	
6006	14057	A	6783	2	69	
6007	14058	A	6784	1576	3458	
6008	14059	A	6786	1	960	
6009	14060	A	6787	507	755	NKRGYKQMEEHSMMLGRKNQYRKNGH TAQGNL*IQCHPHQATNDFLHRIGKNDF QVHMEPKKSPHRQVNPKEQSWRHHA T
6010	14061	A	6788	274	882	PDQVDRGGAHWOTDADFPWLADHLQH CQRCGEILRHYSOGIRGNVSAVKCAEBHI VPAFARLRNPQCGDFORIDYRLFDSPGV KRREL*TAIRFCHVAP*LMDLRSGWAA GAVVRYQSH*ETADRLRSVDMDEAGN HHSQOTSQDQKIKORTFSLISGS*TRTH GHREGNITHRGLSRPNTARILCASKAHL GLPLRSSLP
6011	14062	A	6789	114	329	
6012	14063	A	679	415	1094	SKSRMSAEVHIVQVEALDTEKEMLLFL CRDVAIDVVPFNVDRDLLTERGKLSV GDLAELLYRVRRFDLLKRLKMDRKA VE THLLRNPHLYSDYRVLMAIEGEDLDKSD VSSLIFLMKDYMGGRKISKEKSFLLDVV ELEKLNLPADQLDLLEKCLKNIHRIDLK TKIQKYKQSVQAGTSYRNVLQAAIQKS LKDPSSNFRMITPYAHCPDLKILGNCSM
6013	14064	C	6790	1	1983	MGDGTSDFDPIGDIGIRQSNYSCGGCPRI PYVWRVTGRAHGTQITVFMKVYYG NVMRREKDSGGAWGNPWAGILLPPSPST RNCTVHSSFSNENIFFQHTSSCVVHNQ YIGADFPWNFSFVVEYNYVEDSCWTK HCKELNIPYMAFKVILPDTVLERSTLLDR FGGFLLEIQIPYVFFASEGLLNTPDILQLL ESKDMDEAGNHSEQIVTRTENQTLHV LTHRWELNNENTWTQDGEHHTPGPVVG WRELIAPGVEATALIRQADHSLMTSKR DPHEWLDKSWLKVSPSEENRQISTLSS QSSASDLDSVQIEHNEYQYVGLGETVQ EDKTTILNDNSSIMELKEISSFLPPVTSYN QTSYWKDSSCKSNIGQNTPLINIESRRP AYNSFLNHSDSESDVSLGLTQMNCEIT KSPDTQKRVSVVPRFINSQKRRTHEAK GFINKDVSDPISLEGTQSPILHWNFKKNI WEQENHPFNLYQGAQQTACNKLVSQKG NLFTDQKQCLSDSESEGLTCESSKDETFW RELPSVPSLDLFRASDSNANQKFNLSLYF YQRAKGLSQGRKHHESSFGDKESLITE EKTEAQEKMTTEDRGRGWGYATTNRR MPRIAGNHQEPGERRGTPPSEAPEGSNP ANTLILDFTPPPEL*
6014	14065	A	6791	190	486	FLHHFFLHD*YSSSNKLQKVNKSIPPTGFS LPCCVLIVQLPLMSENMRCLVFCSCVSL LRMMVSSFIHVPLNFFNAFLLLNFRFCP LLSCHMIKKSSS
6015	14066	A	6792	1	597	

6016	14067	A	6793	1	721	MTSYNEQNKFPVTDPNEMAIHEDSNQE FKIAV VNETQSPRSSPTHELMTPPLPT REOQPPLTVIHVLPKSYKATAPPLSPFPDS LFLGLSQAPRDMDEAGNHHSQQTQKQEQ KTKHCFMFLTSGS*TMRTHGHEGTVIH RGLLGQFSQQLINKSEFSNTVCREKSGR VLQVNMESPL*MIQDALQDQTTFKGPIT VFL*FVLDHLLRSSHKVASYLSTESRSR GSITVLFIRCSEP
6017	14068	A	6794	417	696	DRNRKANTACFQHSQVGEQ*EHMDTG KV*SI*YGNVEHTSTCERMEIQKATTEHL NL*SSGSFLRFTWKMLQFSKISRSFYQV LKHQQKIM
6018	14069	A	6795	325	1489	RSPTLLMHVHYKIVISWRELLIWLRAA NASINPGVQSPSGDPKVTGTGPPFLRLA ADWVEEASVPKGVHIALSSQEQRAGDP RDLEAPSNLVISERTHRSFRVSWTPSPDS VDRYKVEYYVPSVGGKKQEVVRTPGVFP LRLPAIIPQAAWLLAHLPAAPPTTELPT KHTEAQSQRCSWLLLCSTVEVAAPSQV VKEAPPSFHTGTENGQGEESLFNKAYY GGGTNFRKESQKLQSSAKKRDAAELAN GALGIELNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWWYLFTRSGSKMTI DENKIPRNPTYKREGPLQELQTTAQG NKRGRYKQMEHSHMLMDRKNQYRENGL TAQAPOPPPSGI*GYTAPCFWENLI
6019	14070	A	6796	274	716	QACYYITYIEYYAAIKNDEF/TVLCRDM EAGNHHSQQTVTRTKNQTPHVLTHRWE LNNENTWTQEGEHHTPGPVMLDSAPPTL GHQTPGSSAFGLWDLHQRRLRPRPQTKG STVGFPGEAFKGLGHYWLSFFPSLQT AYRGTLFPNH
6020	14071	A	6797	1	870	
6021	14072	B	6798	328	2283	MKLEAIIILSKLTQEQKNQTLHVLTHRWE LNNENTWTQGGGEYHTLGPVDFGQKKEE AAIGAILQLPLVIQTVLGVDLQQTADLQ QRGLLEKLTNRKIAHTVRDHIQREHN SSPAREQNWMENFTDELTVGFRRWVI NSSSELKEHDLTQCKKGTWMMLETHFSK LTQEQKNQTLHVLTHKWELNNTWTQ GGEHHTLGPVWRMFQIYVVAERMLDKI PSLAFGLDLRQWFARGCWSFGHRLKA ARITAPRLAREQNWMENEFDKLTEVVR RWVITKSKLKEHALTQCKEDKNLEKKE ATQQKMSRTASEASSVFTATPHCYHY LSSASYHISGSIRFPVLEKIRLHMGLNK CKVLSGGSSSQMYGDLEGGWNGKV VFPWSWAVQEPASPPTLGQISLTVCCST VNGLPASVDVFFCREALPRNLQKFAKD LGCLLQYIDNLLGYSTAVGCARRMDA LLRHLEDCGYKVSKKKAQICRQQTGEQ TIRERWIKLSDGRIAPQLGAADVLA VHKTHLGQESLEKLLGOYFYISHPALAK TVAQQCVCQQRHAKQGPSVPPGIQAY RVASFENLQVDFTEMPKCGDQGLERGST VALVEGTPDHYPDHSHSYKGRNRPKLD SHSCVKPATAKT*
6022	14073	A	6799	2	472	
6023	14074	A	68	241	492	GGQIMRSGY*DHPG*/HGETRSLKTKQL AGHGRHL*SQLRRPRLNRLNLGGRG CSEPPSRHCTAAWATE*DSVSKKKKSRR

6024	14075	A	680	551	1706	SKSRMSAEVHQVEALDTDEKEMLLFL CRDVAIDVPPNVRDLDDFT/REGRVLS VGDLAELLVYRVRRLDLKRLKMDRKA VETHLLRNPHLVSDYRVLMAEIGEDLDK SDVSSILFKMDYMGGRGKISKEKSFLOL VVELEKLN/VAPDOLDLEKCLNIHRI DLTKIKQYKQSVQAGTSYRNVLAQAI QKSLKDPSSNNFRLHNGRSKEQRLKEQLG AQEQPVKKSQIESEAFLPQSPHERYKMK SKPLGICLIIDCIGNETELLRDITSLGYE VQKFLHL.SMHGISQILGQFACMPHERDY DSFVCLV.VSRGGSQSVYGVDOHSHGLPL HHIRRMFMGDSCPYLAKPKMFTIQNY VVSEGPAGEQQPLGGWMGQR
6025	14076	A	6800	1	239	OCCSGGTHIGNPAIGDRMOKQILPWAPA QMKIRFMAPPERKYSVWLAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
6026	14077	A	6801	2	440	TGIVMDSDDGTHITMPIYEGYTLPHAILP LDLAGQDLTDYFMKILKEGGYSFTTTAE REIMLDIKEKLCYITLDFEQEMATAASSS SLEKS*ELLNGQVITISNQWFHCP/EYLFQ PSFVTSIMKCDVDICKDLYANTVLSGGT TMY
6027	14078	A	6802	2	212	
6028	14079	A	6803	3	443	
6029	14080	A	6804	1	1470	MSTRPRRPPOLGRSTGRARLASRVAAA GPPGARAPLAGDRAPAAGAPRRAGAP CRPDPFPPAAAGPTGRSPREGGKTGNRGK EREKGRRAQSLAFADPPPVATRRLTMD DDIAALVVDNNGSMCKAGFAGDDAPRA VFPSIVGRPRHQGVMMGMQKDSYVGD EAQSKRGILTLKYPHIEGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFNTPAMYVAIQAML SLYASGRTTGIVMDSGDGVHTVPIYEG YALPHAILRLDLAGRDLTDYLMKILTER GYSFTTTAEREIVRDIKEKLCYVALDFEQ EMATAASSSSLEKSYELPDGQVITIGNE RFRCPALFQPSFLGMESCGIHTTFNSI MKCDVDIRKDLVANTVLSGGTMTMPG NADRMOKETALAAPSTMKIKIAPS*RK YSVWIGGSILGLSTFQQMWSKQEYD ESGPSIVHRKCF
6030	14081	A	6805	171	393	GKPKPKPKPLPKPKSREISIH*GL*KAGP FRAPGRGCKPCWLGPS/GPGGR*GCP*K ASPEKVLGENLTLKNP
6031	14082	A	6806	3	264	SRRGSSPAQGSGLRPLLSAQYKVVGV GGDRVSL*TMDSPLAPKTNQRASQSKLD LQPA*APWP/PQLCGHPVPSASCPSPTF KPT
6032	14083	A	6807	1	632	
6033	14084	A	6808	1	591	
6034	14085	A	6809	783	1516	
6035	14086	A	681	76	158	
6036	14087	A	6810	1	951	
6037	14088	A	6811	122	271	
6038	14089	A	6812	3	132	
6039	14090	A	6813	3	302	
6040	14091	A	6814	2	2158	
6041	14092	A	6815	2	186	

6042	14093	A	6816	1	866	MMEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKLLKGTEDELDKYSEALKDAQEKLEAEKKAADAAEAVASLNRRIQLVVEELDRAQERLATAQKLEEAKEAADESERGMKVJENRALKDEEKMELQEIQLKEAKHIAEADRKYEVARKLVIIEGDLERTTEERAEAEKSCSELEELAKNVTNNLSLVEAQAEKYSQKEDKYEEIKJLTDKLKEAETRAEFAERSVAKLEKTDDLEDELFAQKLYKALSEELDHALNDMTSI
6043	14094	A	6817	1	639	
6044	14095	A	6818	1	1710	
6045	14096	A	6819	764	1203	FWLWVSVFVPCNTHITSKSTSFSSPSTQATRFGVL/WFVIKASIIQYCIARERKEFTHPVGRSLCLRQKLYNGTTETVTSWSSNHTERNPFSKPKLRITVWHPESHDRDWTAPTGLYWICGHRAFAKL/PDESAGIGGPKQGAIGIKE
6046	14097	A	682	1	2313	
6047	14098	A	6820	24	225	ARQAQAWFWAWRWAACLWFYFLVVS*NRV*VSNNNKNNRSLSSLNSCKCF/WS TRQOK*IPKMIS
6048	14099	A	6821	1	1752	
6049	14100	A	6822	110	203	
6050	14101	A	6823	76	353	
6051	14102	B	6824	64	930	MLRSVWNFLKRHKKKCFGLTVLGGVYILGKYGQKIREIQEREAAYEIAQARRQYHFESNQRCTNMVLSMLPTLREALMQQLNSESLTALLKNRPSNKLEIWDLKIISFTKSTVAVYSTCMLVLLRVQLNIIGGIYILDNAAVGKNGTTLAPPDVQQYLSIIQHLLGDGLTELITVIKQAVQKVLGVSLSKHSLSLLELQKLEIRNLVEQHKSSSWNKDGSKPLLCHYMMPEETPLAVQACGLSPRDITIKLFHKTEDMLGSPDFRQLNTCFKPRF*
6052	14103	A	6825	385	666	
6053	14104	A	6826	701	930	VAERQTGTGGQTVGDITDRATSM*MRQRGGCF/ATCC/FRHEGVVPVWQGRYHDEGGFPFARLIHCTPDVLTYPYHVP
6054	14105	A	6827	248	719	TDEPSLLSHTCPKCALLSACSGACPLSSGTQAGMPPSTEALQPCRGTLVPHQODKGHRAACV/WKALAADWSVEW/QKGRRLGKALSVTSR/IRATSM*MRQRGGCF/ATCC/FRHEGVVPVWERGYHDEGGFPFARLIHCTPDVLTPAISP/VNGNSTA
6055	14106	A	6828	1	2489	
6056	14107	A	6829	227	547	FHNKCPRRLESRLQOISIFGMPENHLLKMQILRSAPDSLDPCCAGPLHGEELLHRVEQVGAEVARKVQDDFVL*GDMVEHLPRPGRQAESTPPTVPGNPETLRRR
6057	14108	A	683	788	926	PSPELPEGDFEGFFPKLQ*SCPLTLQKKKNNNNNNNNNNNNNEK
6058	14109	A	6830	3	433	
6059	14110	A	6831	37	360	
6060	14111	A	6832	280	1816	
6061	14112	A	6833	3	251	GGALRLHQVPPALPLRGAVSGAAAVQGMSDCTPCCEVHLLQD*VPAGEARVQWHDLGSLQPPPPRFRKFSCLILPSSWDYRH
6062	14113	A	6834	3	251	GGALRLHQVPPALPLRGAVSGAAAVQGMSDCTPCCEVHLLQD*VPAGEARVQWHDLGSLQPPPPRFRKFSCLILPSSWDYRH
6063	14114	A	6835	2	340	
6064	14115	A	6836	220	412	

6065	14116	A	6837	425	619	
6066	14117	A	6838	1	684	MESQEPTESSQNGKQYIIEELISEGKWV KLEKTTYMDPTGKARTWESVKTTRKE QTRDGVAVIPVLQRTLHYECIVLVKQFR PPAMGGYCIESPAGLMDGETPRKQLLSR ELEETGLQRGPLPEC/SLPAVCMGPQAC PNCTNHIHVT/TPINGDDAENARPKP/KSP GDGEFVEVISLPAKNDLLQRLDALVAEB HPHSGTPRVYSYALAKHANAKPFEV PFLKF
6067	14118	A	6839	3	194	
6068	14119	A	684	242	437	KSCFFCLIRCYDSLPLPLLLNFFFLGTES CSVAQAGVRWLNLSSTATSGLPGSINSP ASAS*AA
6069	14120	A	6840	1	168	
6070	14121	A	6841	3	191	
6071	14122	B	6842	15	377	MAALCRTRAVAAESHFLRVLFFRPFGRG VGTESGESGSSNAKEPKTRAGGFASAY GAARRSFYRRWSPYRKVEPGRSGPKKC GILCIYAETILPLTTDGLTQTLLVHWGT SFIFVENDL*
6072	14123	A	6843	2	205	
6073	14124	A	6844	1260	1628	SFLCLVSCFSNFS*NCSRPVFSLSKDFDV FVLFCDGVLLCHPGWIAVAQSLRTTAST SRNKRFSCLTIRSSWDYRRPPCPADFCIF SR/DRGFTMLARLVWNS*PQVICPPPPPK VLGLQA
6074	14125	A	6845	3	629	
6075	14126	A	6846	15	241	
6076	14127	A	6847	93	172	
6077	14128	A	6848	3	82	
6078	14129	A	6849	2	237	
6079	14130	A	685	1	1254	
6080	14131	A	6850	407	529	
6081	14132	A	6851	2	383	
6082	14133	A	6852	1	444	
6083	14134	A	6853	1	279	
6084	14135	A	6854	3	989	
6085	14136	A	6855	1	318	
6086	14137	A	6856	1	397	
6087	14138	A	6857	15	95	
6088	14139	A	6858	3	350	
6089	14140	A	6859	118	325	
6090	14141	A	686	73	1553	PLKAKMGKEKTHNTNVVIGHVDSGKST TTGHLIYKCGGDNKRTIEKFEKEAAEM GKGSFKYAWVLDKLAERERGTHDISL WKFETSKYVTVYFPDAPGHRDFYPKT WITGDIFRLDWFGGPPFWGGSPLVAAAG VGEFEAGYLPRNGADPERHALLAYTLG CETTKLSGVNKNIGIPLEPTPAQKKILKEI VKGKSALTLRKIGYNPDTSILCPISGW/N GDNMLPSANMPWFQGDGKVTRKDG NASGTTLEALDCILPPTRTDKPLGLPL QDVYKIGIGITVPVGRVETGVLPKGMV VTRGPNVNTTEVKSVMHEALGEALP GDNVGFNVKNVSKDVRRGNVAGDSK NDPPMEAAGFPAQVILNHPQISAGYAP VLDCHTAHIACKFAELKEKIDRRSGKKL EDGPKFLKSGDAIVDMVPGKPMCVESF SDYPLPGCFVAVRDMQRTVAVGVIKAVD KKAAGAGKVKTSQAQAQAKAK
6091	14142	A	6860	1	135	
6092	14143	A	6861	1009	1140	
6093	14144	A	6862	3	416	
6094	14145	A	6863	4	252	

6095	14146	A	6864	3	130	
6096	14147	A	6865	1	1590	
6097	14148	A	6866	1	595	GTRRLAPTAQRKRDENQSVKPEPGRGAS VRGGNIQTLFAGGDFLTCPSARDFRVRP AGGTQVPAETAIEVPVPAVAGARGGR VMSEPOPRGAERDLVRDTWVRYLGYAN EVGEAFRSLVPARVVWLSYGVASSYVL ADAIDKGE/ELERCFALEASRSARVTV VVDTFVQALASVAIPGPTINRCAASL YVLGT
6098	14149	A	6867	2	453	
6099	14150	A	6868	1	265	
6100	14151	A	6869	46	194	
6101	14152	A	687	67	408	KAAGKRGDFKTEGAYQRQRTIFKNKKR ARREKTGRENLRGNKYNMGRGLKTPRG ALGGPYLDDKGPLRGKGPFGGTLSSS PKJKIQGTL*IRRNYPYIRRYNRFKRRQ KNM
6102	14153	A	6870	4	228	
6103	14154	A	6871	1	288	
6104	14155	A	6872	1	885	
6105	14156	A	6873	532	687	
6106	14157	B	6874	158	3331	PRPFAAGEAQAADNMNHQQQQQQKA GEQQLSEPEDMEMEAGDTPPRITQNP VINGNVALSDGHNTAEEDMEDDTSWRS EATFQFTVERFSRLSESLSPPCFVRNLP WKIMVMPRFYPDRPHQKSVGFFLQCNA ESDSTWSCHAQAVLKINRYRDEKSFSSR RISHLFFHKENDWGFNSFMAWSEVTDPE KGFIDDDKVTFEVFVQADAPHGVAWDS KKHTGYVGLKNQATCYMNSLLQTLFF TNQLRKA
6107	14158	A	6875	589	732	
6108	14159	A	6876	1	799	
6109	14160	A	6877	2	470	
6110	14161	A	6878	3	204	
6111	14162	A	6879	367	551	EHSTLKLPHYHTQEAGAAPGPTGTDSEHV DHLEGGAGKEAGPCA*SLGTMVAPVRS NSGSPE
6112	14163	A	688	10	386	AGAAAIGEPMA*RGEGHPVWSDERAD STNVNNWHWTERDASHWSIDKLKTLFL AMHVQNEERNGEATEVSKLDGEASINN RIGKLMFFYEWGVTLDTWTGAS*SGVPY KGHVEIPYLADENCVDE
6113	14164	A	6880	24	547	
6114	14165	A	6881	1	828	
6115	14166	A	6882	2	270	
6116	14167	A	6883	2	114	
6117	14168	B	6884	75	293	MPSIKLQSSDGEIFEVDVEIAKQSVTIKT MLEDLGMDDEGDDPVPPLFNVNAAILK KVIQWCTHHKDDPPSS*
6118	14169	A	6885	446	639	

6119	14170	A	6886	3	1503	ARQRRSRAPTHTHRALVRLFSQSOSAP PPPPRSPSSAAMSTRSVSSSYRRMFGG PGTASRPSSSRYSVTSTRYSLSALRP STSRSLYASSPGGVYATRSSAVLRSSVP GVRLQLQSDVDFSLADAINTEFKNTRTNE KVELQELNDRFANYIDKVRFEQQNKIL LAELQLKGGQKSRLGDIYEEEMRELRR QVDQLTNDKARVEVERDNLAEIDMLRR EKLQEEMLQEEAEENTLQSFQVDNIA LARLDLERKVESLQEEIAFLKLEHEEQ ELQAQIQEQHVQIDVDVSKPDLTASIRD VRQQYESVAANKLQEAEEWYKQCVC* PLLRASNRNNEPLRQAKQESITELPENR VQSLTCVEVDAL*KKPMSSLERQELREME ENFC/AVKAAANYPRPLAKRLQDEIQNY* RREMASLTFVEYQ*PALNVKMAP*HLRF ATLQEM/LIQRGERGFPLASFPNLSL* TLRGNLIWDSLPSGLPHSKRDT
6120	14171	A	6887	3	232	
6121	14172	A	6888	252	384	
6122	14173	A	6889	3	196	
6123	14174	A	689	2	323	REMDLQVHNAMDQLEQRVSEFFMNAK KNIPWREBQMASIKKDYKALEDADE KVQLADQIYDLR/SELDITPSQVNNHH AHSHTPAEKRRKYNPTSHHTTDDHIPEK
6124	14175	A	6890	1	2994	
6125	14176	A	6891	75	350	TGIPVNSYRVKINWYTLQFVSLFRPPGL VINNLADQSESGPVQIESAEFSQLVEVP ATEEIKETDGSQIKQEPDPTWETSFLLG EISF
6126	14177	A	6892	1	2935	
6127	14178	A	6893	214	301	
6128	14179	A	6894	1	2879	MAQVAMSTLPVEDEESSESRMVVTFML SALESMCKELAKSKAEVACIAVYEDVVF VVGTERGRAFVNTRKDFQKDFVKYCV EEKAAEMHKMKSTTQANRMSVDAVEI ETLRKTVEDYFCFCYKALGKSTVVPVP YEKMLRDQSAVVVQGLPEGVAFKHPE YDLATLKWIGENKGGISFIKRPFLPEKK HVGGRVMVTDADRSLSPGSGCGPIKV TEPTEDSGISLEMAAVTVKEESEDPDY QYNIQ
6129	14180	A	6895	1	334	
6130	14181	A	6896	3	444	
6131	14182	A	6897	117	1009	
6132	14183	A	6898	5	808	LPLPGRAVWCTHOCAPTSPGPVLPISAA MSFLKSPFPFGAEGLLRQOPDTEAVLN GKGLGTGTLIAESRLSWLQSGGLGSL EYPTLSLHLSRDRSDCLGEHLYVMVNA KFEESKEPVADEEEDSDDDVEPITEFR FVPSKSALEAMFTAMCEQALHPDPED EDSDDDYDGEEDVEAEHQGGDIPITYT YEEGLSHLTAEQATLERLEGMLSQSVS SIQYNMAGVTRTEDSIRDYEDGDRDLT IPVTVCLQFVEDADV
6133	14184	B	6899	233	411	XALNLSAQDNWAKLQRDYPDALITNY YLWPAVQLANFYLVLHYREDFASTTLV SDPT*
6134	14185	A	69	709	941	SQHFRSGDQHHHPQHGETLSLKMOK LAGCGGMRL*SQLGLRLQENLLNPGG RGCSKPRSHHCTPAWVTQDSIS
6135	14186	A	690	2	495	AKKNKPEWREEQMASIKKDYKALEDA NDEKVLNQNQYDLVDRGRRKLDQELAK FKMELEADNAGITEILERRSELDTSPQ VNNHHAHSHTPVEKKRYNPTSHHTTDD HIPEKKFKSEALLSTLTVRCLLENTLGC R'UNNSTASSNNAYNVNSSQFLGSYN

6136	14187	A	6900	109	435	
6137	14188	A	6901	34	408	ROWLQEEAYITKEQKYSFLHDSQTSFCF SDSIPSTSSNMEETQOKSNLELLHLSLLLN QSRLEPVRFRLRSTFTNNLVYDNSDSDY QLLKDLGGIQMLMGRLEAATN*LGGP QANYNKFDKTRTT
6138	14189	B	6902	80	495	XPGSRTSLLI.AFALLCLPWLQEGAVQT VPLSRLFDHAMLQAHRAHQLAIDTYQEF EETIYIPKDKQYSFLHDSQTSFCFSDSIPT SNMEETQOKSNLELLRLISLLIESWLEPV RFLRSMFATTWCMTPTAMITTS*
6139	14190	A	6903	1	597	
6140	14191	A	6904	3	552	
6141	14192	A	6905	3	716	
6142	14193	A	6906	359	648	WIPRPNSPNHSGCGQAHVAMAPGSR T SLLAFALLCLPWASRRLGAVPKPFRIS RLFDHAMLQAHRAHQLAIDTYQEFEE TYIPKDKQYSFLA*PQTSFCFSDSIPTPS NRRITQOKSNLELLRLISLLATESWLEPV RFPQEYCSANNLGVLTPTAIDYHLLKD LEGGHPTV*WNICREVCFACFSRGIRDD JEEEDDQEAIFYRYMAENPTAGVVQEEEE DNLEYDSGDNPIAPTCKIIDPLPIDHSEV DQHGLRPEGHTLTKERTSVVESVADTL CTILTTLVMDPKAQLPEPLRVLWTGSPS GNGSRLPDVPCSWLLPCSCAPGLQGGW VPCQNRSVYPGFFDHAIAPSPSRAPAGH CTPTRSLKKPHIPKDKQYSFLA
6143	14194	A	6907	113	411	
6144	14195	A	6908	3	1162	
6145	14196	A	6909	2	265	
6146	14197	A	691	50	391	GSQKIAPVFWSGFECDSERLTDLESWLY ILPATQPSWLTIFYFQFSFILTRLYDKLF FFFTLYLYLNLVFFLYVFLFIV*ICICYIY LVFIFKCVV*FFIFFVCFMLFL
6147	14198	A	6910	3	151	
6148	14199	B	6911	58	359	SLAALQAYSHWLQAYCEVHRQNTQQF VTLISTTMDAITPLISTKVODKLLLSACH LLVSLATTVPVFLISIPAVQKVFNRITDA SALRLVDKRMSSSGP*
6149	14200	A	6912	4	329	
6150	14201	A	6913	2	256	
6151	14202	A	6914	1	350	

6152	14203	A	6915	257	2659	VDCRMS/FSYIEKFTDFLRLFVSVHLRRIE SYSQPVPVVEFLTLFFKYTHQPTHEGYFS CLDIWTLFLDYLTSTKIKSRLDKEAVLN RYEDALVLLTEVLNRQFRYNQAQLE LADDETLDDDDQQTWQRYLRQSLVVA KVMELLPTHAFSTLFPVLQDNLAEVYGL QQFIVTSGSGHRLNITAENDCRRLHCSLR DLSLLQAVGRLEAYFIDVFAARFND LTVVERLVKVTLYGSKLYNIETAVPSV LKPDLIDVHAQSLAGGCRLSAHWLAQY CSEIHRQNTQQFVTLISTMDAITPLISTK VQDKLLLSACHLLVSLATTVRPVLISIP AVQKVFNRITDASALRLVDKAQLVLCR ALSNILLPWPNLPENEQOWPVRSDINHAS LISALSRDYRNKPSAGAPQRMPLDDT KLIHQTLQRLRKILWENISGESTKSSDF AYQFGCRSVQVSLGLFPAPHFQSDVT DEMLSFLLTLFRGLRVQMGVPFTEQIQ TFLNMFTRQLAESILHEGSTGCRVVEKF LKILQVVVEPGQVFKPFLPSIALCMEQ VYPIAERPSPDVKAELFELLFRTLHN WRYFFKSTVLASVORGIAEEQOMENEPQ FSAIMQAFQGSFLQFDIHLKQNLFYLE TLNTKQKLYHKKIFRTAMLFQFVNVL LQVLAHKSDDLQAEIGHRSYNNMAS VDFDGFFAFLPEFLATSCDGV DANOK SVLGRNFKMDRVKRRERAKRRAEWA RKPGTCAARRGHIEASGRGLCPPCSLAA AHEMPADLV
6153	14204	A	6916	1	321	
6154	14205	A	6917	1	259	
6155	14206	B	6918	1	3043	MPDCTSKCRSLKHALDVLSVVTKGSEN QIKAFLSHHCYNATIKDVPGRNALHLV SSCGKKGVLDWLQKGVDLLVKDKESG WTALHRSIFYGHIDCVWSLKHGVSLEYI QDKPEGLSALDVMKDRPTHVVFNTGCG LLDPNGEKCVTAPRQVSALHHKDIALSL VAASDGATVCVYTRGDIYLLADYQCKK MASKQLNLKVLVSGGHMEYKVDPEHL KENGGOQKICILAMDGAGRVFCWRSVNS SLKQCRWAY
6156	14207	A	6919	1	1149	
6157	14208	A	692	3	546	PAPPGRVFAAWPGSEEARVLVVLKGA CRAGLFKMYPLPMTEVCTKSSTVTWF CFAAYESLFPETPFAIGVSVLVPWGLTL ALS*VCFAAFA*LLASLFSQDPLVSPSAA MWASPAFCFAEPSSAIGVSSPSSVFTQ QS**GSPLAGSASAKNMARARSVAPP RNRGRPGNTNADS

6158	14209	A	6920	426	2967	HSAPPAVLRRGMSEAGGAGPGGGCAGAGAGAGPGALPPQALPPAPPGGSPCAAAGGGGACGPATAVAAAGTAEGPGGGG SARIJAVKKAQLRSAPRAKKLEKLGVYSA CKAEESCKNGWKNPNPSTPTPRADLQQ IIVSLTESCRSCSHALAAHVSHLENVSEE EMNRLIGIVLDEYELFTCVHKEEDADTK QVYFYLKLLRKSLQRGKPVVEGSLEK KPPFEKPSIEQGVNNFVQYKFSHLPAKER QTIVELAKMFLNRINRYWHEAPSRQRLR SPNDDISGYKENYTRWLCYCNVPQFCDS LPRYETTOVFGRTLLRSVFTVMRRQLLE QARQEKDKLPLEKRTLJLTHFFKFLSMLE EEVYSONSPIWDQDFLSASRTSOLGIQT VINPPPVAGTISYNSTSSSLEQPNAGSSSP ACKASSGLFANPGEKKRMTDSHVLEEA KKPVRMGDIPMELINEVMSTITDPAAML GPETNFLSAHSARDEAARLEERRGVIEFH VVGNSLNOQKNPKILMWLVGLQNVSFH QLPMPKEYITRLVDFPKHKLALIKDGRVIGGICFRMFPSQGFTEIVFCAVTSNEQ VKGYGTHLMNHLKEYHIKHDLNFLT Y ADEYAIGYFKKQGVCKEIKPITKYGGYI KDYEGATLMGCELNPRIFYTFSVHKK AE/EGHKKLIERKQAQIPKFTLGLSCFK DGVROIPIESIPGKKAAGWNPSGKEKSKE PRDPDQIYSLVLSILQVQVSHQSAWAF MEPVKRTEAPGYEVIREPMDLKTMSER LKNRYVYSKILFMADLQRVFTNCKEYN AAESYYKCANILEKFFFSKIEAGLIDK
6159	14210	A	6921	1	184	
6160	14211	A	6922	114	384	
6161	14212	A	6923	141	1741	
6162	14213	A	6924	1	153	
6163	14214	A	6925	1	200	
6164	14215	A	6926	2	242	
6165	14216	A	6927	132	251	
6166	14217	A	6928	132	251	
6167	14218	A	6929	2231	2578	PLPPGSRTLHWMAPDEEDFRIGN*TMNA IFFFLFLFFFFFLRQSFALVVQAGVQW HDLSSLQPPPPRFK*FSCLSLPSGWD*RH APPRPAIFVFLVEMGFHHVNDGLDLTLT W
6168	14219	A	693	3	389	DAWVDPFRFLIFLKTLTGKTMVLDLEPN DTIANAKA*IQDKEGIPPDQQLIFAGKQ LENGRTLDPYIHKESTLLVRLKGGMQ IFVKTLTA*ITSLQAEPSDTHNV*EKIQD KESIPPDQHTVIL
6169	14220	A	6930	2	94	WRDLGSL*PPPPGFKRFS*LSLKHSPNVT S
6170	14221	A	6931	130	295	GIISNADFVSFFFF*DGVFALVAQAGVQ WRGLGSLQLPPGFKRFSCLSPSTW
6171	14222	A	6932	3	403	TYKILDFIVINSIRHRRGTFRFGHTEVTS MILDFIGAG*/SNLQ*PAST*GDQY*1L LQST*NYVLHKFQLPTWKGSEISEQAV SAKEKT*KS*/LALVK*ARTLESNWPGL *ILILISLSCMIWTDNSNLF
6172	14223	C	6933	78	335	MWSPLTKEIFSCPPTQCGAFKGTLKRA PXXXXXXVKIGXXXXXXXKXXXXXX XVSPPRLSARVLAPCLGCDFFVSPNRTTV WK*
6173	14224	A	6934	1	143	
6174	14225	A	6935	1	1676	
6175	14226	A	6936	1	161	
6176	14227	A	6937	61	742	
6177	14228	A	6938	7	238	
6178	14229	A	6939	1	213	

6179	14230	C	694	70	225	MNIQYIQHESVYQNVRSQRESTGRWSH CCPSQGRSRRIFFTVEEQHGV*
6180	14231	A	6940	1	257	
6181	14232	A	6941	3	279	GSQWDGRGQSGRVADSS*ARVLSALARE VNRKRLQDLRSCLSPKPPQGGEEQQGGED EVVLVEGPTLPETPRLFPLKIRCRADLVR LPLRMVSA
6182	14233	A	6942	73	816	
6183	14234	A	6943	1	484	
6184	14235	A	6944	1	1758	
6185	14236	A	6945	1	1420	
6186	14237	A	6946	186	209	QLWPN*LLSRNKEATLRSOLPTCHSICY *MPAF*HISDLSFNKNINCKSVHLRVFY KYV*IVCHF*VPKVVYWKYQTSRGT*W R*SGVE*PPISSSSACCLRLRLPTEGT*CP EIFWNPRLGISAECDSCGPTSF
6187	14238	A	6947	2	2948	
6188	14239	A	6948	1	616	
6189	14240	A	6949	1	1913	
6190	14241	A	695	277	396	EAP*HPDFIKNMITGTS*ADCAGLIVAAG GGVFKSWDLQK
6191	14242	A	6950	3	185	
6192	14243	A	6951	112	569	
6193	14244	A	6952	1	1210	
6194	14245	A	6953	75	333	
6195	14246	A	6954	271	512	GAVGRPRSQQKSIGVPGWVSPGF*ECGK RRMTFVLLKHIMLLFPARFQQIMRNPRR LAEHMQPLFSSCPSLMRAFEVT
6196	14247	A	6955	2	184	
6197	14248	A	6956	13	163	
6198	14249	A	6957	627	847	
6199	14250	A	6958	3	144	
6200	14251	A	6959	1	2008	PAAADARRPRSPATMRPRKAFLLLLL GLVQLLAVAGAEGPDEDSSNRENAIEDE EEEEEDDDDEEDDLVEKEENGVLVLND ANFDNFVADKDTVLLEFYAPWCGHCKQ FAPEYEKIANILKDKDPPIPAKIDATSAS VLASRFVDSGYPTIKILKKQAVDYEGS RTQEEIVAKVREVSQPDWTPPEVTVLVL TKENFDEVVNDADILVEFYAPWCGHCK KLAPYEYKAAKELSKRSPPILAKVDAT AETDLAKRFDVSGYPTLKIRKGRPYDY NGPREKYGIVDYMIEOSGPPSKEILTLKQ VQEFLLKGDGDDVHIGVFKGESDPAYQQY QDAANNLREDYKPHHTFTEIAKFLKVS QGQLVVMQPEKFQSKYEPRSHMMDVQ GSTQDSAIKDFVLKYALPLVGHIRKVSND AKRYTRRLPVVYVYSVDFSDYRAATQ FWRSKVLEVAKDFPEYTFIAIEDEEYDA GEVKDLGLSESGEDVNAAILDESGKFA MEPEEFSDTLRELVTAFKKGKLPVK SQPVKPNKGPVKVVGRTFDSIVMDP KKVDLIEFYAPWCGHCKQLEPVVYNSL AIKKYKGQKGLVIAKMEAPANDVFQRP AIRVEGFTTYFRPPVGDCKDPS/VKFE GD/RDLEFPFESFIEHA/TKLSRT/KEEL
6201	14252	A	696	549	707	SQNFWRPMPWADHLRLGVRDQHGQHGE TPSLKIQKLAGHGGRL*SQLVRKLR
6202	14253	B	6960	137	214	ASQFPIEWRPVKDAATVDEPALPQQ*

6203	14254	A	6961	1	625	PSLK GQKLELHRGAAALELVDPPGCRSG LVHARGCTYSQ LWSRSHFPCCSRGPLA MAGILFEDJFDVKIDRKAKKFDRVSR HCESEFMDLJLDVTIQYVPDLGDKFR LVIASLTVEDGILDDGEYNPTDDRPSRA DQFEYVMYKGVYRIEGDNETSTEATRA LSAYVSYGGLLMRLQGDANNLHGFEV DSRVYLLMKKLAFL
6204	14255	A	6962	1	273	
6205	14256	A	6963	135	233	
6206	14257	C	6964	198	449	
6207	14258	A	6965	1	1278	
6208	14259	A	6966	1	325	
6209	14260	A	6967	525	661	TEILSGSLGSEIFTTSES*RPGLGPSFVIFLF SSSVCLNIFFRVL
6210	14261	A	6968	1	293	MAGTPPPALLPPCSLISDCCANNQDVS GVGPSEPGAGYNLVRSFSLPSEKRSVR VGVTRLFQGRPSPLSLTQKGNPLTPCAS QFITSISDGRIMV
6211	14262	A	6969	1	1372	
6212	14263	A	697	82	417	AFQEMELKRQPEEDVAALPEGMRPHSN LYGFSWE*VICAADVGLFAALFFLWR.SF RTVIRIRHVGRERKLALMLSGLNQ*KSEL LGHCILAQNEYDGYELDE*FVDLRVDKE
6213	14264	A	6970	2	277	KNEMTLDAIYFLADMAAYQOEQMQLP RADAIRSRLIDTSLIEHLQGLSQAVPRH TIRELLGQQPISSLI*1*DSYPHPLHLRVEN SGEV
6214	14265	A	6971	434	563	ETTFYNEORGQPQPHLPEVKKYVRGN*EA KTK*LRPENWKGDIL
6215	14266	A	6972	197	1247	ALVRLDSWMGLNNTANLGGGMTEMAR GVTPWICPRSSAERASGIPAAIMVPISVK ISGPQLLIGPNPPGSKTRWARNSSCSSEH CR/SQGAQESCLAQHH/TPSPASQMT*1 PNC*GAGAPLAAVHRGITHRCQMQNEVQ VAHMPITTL*ETGDHNAELSGAPAIYLP QGAQHSFVH*DQLL*FPIS*TY*EPTKLQ DLLRKTSPGGTPQLFCFAH/ALPAVPQAQ VLGLLQIMSGPSQLRAPSLQSLQTRLL GMSLVHLHNLAAQVLEDPQQLVAPP/T/D YQGCFLGSKLW/LPTQLSNVCSAPSSAAF LEAAPGSLDPRPPGFVVPSPGLPGGGGS VPAALAELEFAPAPPT
6216	14267	A	6973	232	476	IFVSSYHYVNLFFRFT*AHSSSH*1NPQD LYPYQHGNKVKDIPGTLPENRKVG*PL KKDLQDENKQDKPSCHLGGQLQWP
6217	14268	A	6974	442	698	
6218	14269	B	6975	546	1820	LLNCLPFCYGLTSVLHVTCFSSIHGGY DTSKDNGAKQOPKDEIDAEDATDFRH LPDVLKQCPIMQASOPADSAVPATSGK VYGTPELTETYPINIEAAPLAEHHIASSA TSITECDKLSSFATSVAEDQSASLTAPQ TEETGKSLLLDVTVSIPSRTEATQGLD YVPSAEDKGFKSPPCEDFSVTGESEKRG EIIKGKLSGERAVEEEEEETAHVEMSEKL CSQYGTVPVFSAPGHALHPGEPALGEAE RRLSPDDSTVKMASPAPSGPPSGTHTPFH ESPVEEKSEFQDFQADSWGDTQRTTSV GKRKAAEELRCLVTRGSRIGLSLPPACT RAERREVERVVDALSGKGLDAGRY RLESEMTEAEQQQLIDDHFLDKPVPSPLLT AAGMARDWPDARGIWHNNEKSFLIWW N*
6219	14270	A	6976	2	480	
6220	14271	A	6977	1	2043	
6221	14272	A	6978	1259	1497	

6222	14273	A	6979	2	425	
6223	14274	A	698	751	1063	FYQDKRHQPQIVAAACNPFGRSRQEDLL RS*VGDQPGQHSPPSMQKIKLAGHGG AHV*S*LLRRPRQDNPLSPGQGCSSL* HHC1PAWATQGDGPGSKSKN
6224	14275	B	6980	259	329	XFRKKEQQIKQCKGTAGQALIKE*
6225	14276	A	6981	1	1251	
6226	14277	A	6982	1	421	
6227	14278	C	6983	120	371	MSAHSHPCTCINGHTPVISITYXXXG PFKRTLGPKFNGGQGGKIFFMGGFLK PSLGFLEKNLFXXXXTYGATPPPKFKP*
6228	14279	A	6984	76	251	ALKFCRGVFMFSPQKKFLFQNSPGGFF PPLKEKNFSPPP*KSSSPKPLNFVGGFF FPPPP/NKKFLFQNSPGGFFPPLKEKNFS FPPPVKFGPPQGS*TPP
6229	14280	C	6985	193	315	MGGQKPSLGFLEKNLFFGGEKNHXX XXXKPKLGGXXXF*
6230	14281	C	6986	363	413	
6231	14282	A	6987	1	1088	
6232	14283	A	6988	64	1279	LAPGAVGKGRGHTLPCSAARMGVKAS QTGFVVLVLQCCSAYKLVCYTSWSQ YREGDSCFPDALDRFLCHIIYSFANIS NDHIDTWEWNDVTLGMLNLIKRNRP NLKILLSVGGWNGSQRFKSIASNTQSR RTFIKSVPPFLRTHGFDGLDLAWLYPGR RDKQHFTLTIKEMKAEFIKAQPGKKQL LLSAALSAGKVTIDSSYDIKISQHLDFIS IMTYDFHGAWRGTTGHHSPFRGQEDA SPDRFSNTDYAVGYMLRGLGAPASKLVM GIFTGRSFTLASSETGVGAPISGPGIPGR FTKEAGTLAYEICDFLGRATVHRTLQ QVPHYATKGNQWVGYDDQESVSKVQY LKDRQLAGAMVWALDLDQGSFGCG DLRFLTNAIKDALAAT
6233	14284	A	6989	3	174	
6234	14285	A	699	3	17	
6235	14286	C	6990	116	181	MCSTSRSRFTNLKSCNLLKY*
6236	14287	A	6991	20	111	
6237	14288	A	6992	120	426	
6238	14289	A	6993	2	112	
6239	14290	A	6994	24	316	FLFLFETESCSVARLECSGAISAHCKLC LPGSRHSPASSSQVAGSTGACHQA/QA NFVFFVLVETGFRVSPG*SG/LSELVLR PPRPFKVLGLQV
6240	14291	A	6995	80	326	
6241	14292	A	6996	1	233	
6242	14293	A	6997	1941	2223	RTPRMKQSPAPICQPTTSCGCMASRAT RTGWTSVCAYCRLFRAHA/CVPVALPE MVRALSAQQOTLKQIVICGDRQAKDTK ALGAVRPLCLHS
6243	14294	A	6998	211	544	
6244	14295	A	6999	31	230	
6245	14296	A	7	46	1069	ESKHGNFVWIFLCYCTKEERTLQLOK TDEYFRMKLQWKSISQEQEKRNSRLRD YRSLEIKDVNRTRDNKFVEGQDNPLGI LLHIDILMTYCMYDFDLGYVQGMSDFFS PFLYVMENEVDFAWCFASYMDQMHQ FEEQMQGMKTQILQILSTLLRLDSGFC YLESQDSGYLYFCFRWLLIRFKREFSLD ILRLWEVWMWTLPTCNFHLCCAILLESE KQJIMEKHVGFNEILKINELNSMKIDVE DILCKAEAISLQMVKCKELPQAVCEILGL QGSVAVTPDSVVG*RTKMLYNDFLGPT VCISKVTAIPTLSASGARNDSPQIPVSS RCLQD

6246	14297	A	70	170	340	TDSALGSPCLHPTALCAVCGTA* SST/GL VALALMRLELLKSSVPAVMAGHTIYNL
6247	14298	A	700	3	443	
6248	14299	A	7000	1	861	
6249	14300	A	7001	55	406	
6250	14301	A	7002	1	361	
6251	14302	A	7003	1	1725	
6252	14303	A	7004	1	1271	
6253	14304	A	7005	3	329	LKLCCKSAKSCENDLEMGMLSKFKKT RYQAGMRNSNLANTLSKPTRY/QGE LKEIKQDISSLRYELLEESQATGELADLI QQLSEKFGKNLKDHLRVNKGKDI
6254	14305	A	7006	1	801	
6255	14306	A	7007	21	373	
6256	14307	A	7008	3	63	
6257	14308	A	701	147	437	WYVKKFKKKERKQERKKERKKERKE RKKRKRERKKER* REREREGRKEGRKE GRKEGRKEGRKEGRKKGRREGREKERE RKKEREISREYDSEK
6258	14309	A	7012	1	521	MSSKRTKTTKKRPQRATSNVFAFMDQ SQIQEFKEAFNMIDQNRDGFIDKEDLHD MLASLGKNPTDEYLDAMMNEVAPGPNF PQWFSFMLVRSLNAPDPENVRNAPACF DVEAPGPIQEDYRELLPTMGDRFTNEE VDELHREAPIDKKGNFNYIGFTRILEHG/ AKDKDD
6259	14310	A	7013	106	693	TTTMSKKAKTTKKRPQRATSNVFA MFDQSQIQEFKEAFNMIDQNRDGFIDKE DLHDMLASLGKNPTDAYLDAMMNEA PGPINSTMFLTMFGKEFKSHRSPEDVI/ RANGLCFCSDDEA TGHPFQED/YTLRELL TNPWGD/RFPDGGKW/MNLYQRKHLIGP KKGEFSNYIGVHHGILTRGPPKHDDLIK ELLA
6260	14311	A	7014	78	188	
6261	14312	A	7015	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6262	14313	A	7016	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6263	14314	A	7017	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6264	14315	A	7018	2	93	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6265	14316	A	7019	2	94	GGSC*SQHFGRPRWADHEVRRSRPSWL TR
6266	14317	A	702	505	637	CLLSNRYRRHQGR*DGKERRKDRKKE RKKERKKERKKERKKERKE
6267	14318	A	7020	1	418	RRLRTAMKLSHRPDQTHWDQYQYKA HILGAALQANPLGAAHAKGIVLEKVRV EATQPKSAIMK/CVRVQLKNGKKITAF VPNDGCLNFIENDEVLVAGFGRKGHAV GDIPGVRFKVVKVANVPILALYKGGKER PRS
6268	14319	A	7021	2159	2334	SATNYRNLTVLEGNSTHRHSHKTNST* KNCTRIPQTSQLNK*VKKHQSHCQSNCP F
6269	14320	A	7022	1748	1821	
6270	14321	A	7023	2179	2485	
6271	14322	A	7024	3	502	TARAWLLGPGVWPCVSRWSKKPSPRG GRDPSDRDPAFAARSTVPPRISAYERP PWPGEWNDPRGGRASAVVSPREGNW GVLRDPRLOARKPRMVRSRQMCNTNMS VPTDGCNHLTSSFGTRDPG*TKAJAF EVIKVCWC*TKRHLHYERGSFLSPWVYY D
6272	14323	A	7025	89	291	

6273	14324	A	7026	1295	1429	
6274	14325	C	7027	332	763	MTGCLNFIENEDEVLA VWTWSQKVMLL VIFLESXFKVQVSSPMVSLALYKWL YG ETKIINMNGENTV VNFHMPKNVCILLSP VLTTKIMHTTTTTPYFFYPKPVNAGVPPI LGNNKTGLFQDSELELITFTVTHSFHPVPE *
6275	14326	A	7028	89	184	
6276	14327	A	7029	2	274	LDL DKS IKIVKLLKLTGFPYKIFKNTSF/ KDIVFMRTWYYPV SIPAFYNPVTSL LKP/V GEKDTWSGMWTTIGHGL/AHGVRLKTN KDSLYKGLV
6277	14328	A	703	220	476	HNSLVVYYFEIWSRILFVYSCSIHTSVVT H*SLSLGLHLKYIWAGHGVSHL*FQHF RPRWENHLRPGL* DQPGQHSETPSLJ.KK
6278	14329	A	7030	178	619	PPRHVQLNHAEFEDQDEARVQVEGFR PGMYVCVEIENVPCFV*NFDPYPIILG GLGNSEGNVGYVQ/PIPTPQGTGFLAQSV SGIMPDFRIAATGVVLDL DKS IKIVKLLK LTGFPYKIFKNTSFIKGMFNSALEVAKFE GAVF
6279	14330	A	7031	159	484	DPITPQGTGFLAQSVSGIMPDFRIAATGV VLDL DKS IKIVKLLKLTGFPYKIFKNTSF KGMFNSALEVAKFE GAVIRTISGIRQKIK KAL*APEGAFRASFEDEKLL
6280	14331	A	7032	19	3881	IATMEAKDQKHKRRKNSGPKAAKKKKR LLODLQLGDEEDARKRNPKAFAVQSAV RMARSFHRTQDLKTKKHIFVDRPTLE PPPIVVVMGPPKVGKSTLIQCLIRNFR OKLTEIRGPVTIVSGKKRRLTHIECGCDIN MMIDLAKVADLVLMIDASGFEMETFE FLNICQVHGFPMKIMGLTHLDSFKHNKQ LKKTKKRLKHRFWTEVYPAKLFYLSG MVHGEYQONQEHNLGRFTVMKFRFLT WQTS
6281	14332	A	7033	182	374	
6282	14333	A	7034	2	198	
6283	14334	A	7035	1	457	
6284	14335	A	7036	2	145	
6285	14336	A	7037	55	193	
6286	14337	A	7038	564	882	
6287	14338	A	7039	257	513	KFFSFLSSACCLEQVLCFVLFVFFVLLLI FSFFFSFSFSFFSSSSSSSSFSSSSFFFLR WS/RSVAQAGVQ/WS*FQSLQFP
6288	14339	A	704	1	554	DLILNHLFFCFVIRQFSLFFFPFHFPI AMLT HQSYVIFLSVYTVIHLDFYISLFLT YDIMYF*TKINT*AKLLIYENMLIVL*CS AFLSNYTVLIVQIASLIHSSTK*ISQCANII KI*ILH*L*SSVEINSYL*LCYLVYSAIL ELVLOSQFSYMYILRIQLDFLNEEMHI
6289	14340	A	7040	936	1317	ILVLHGCFICWYVLCLSMYFFNFEME SRSAQAGVQWCA/DLCSLQAPPAAGFTP FSCLSLPSSWDYRHPPRLAKFFVFLVET GAFHRVSQDGLDLLTSGDPPTSASQSAGI TGVSHRARPLKHLIS
6290	14341	A	7041	1	1218	

6291	14342	A	7042	1	1169	MAPPSPSTSSNNSSSSSSSGWDQLSKT NLVIRGLPHITTDQDLVKLCQPYGKIVST KAILDKTINKCKYGFVDFDSPAAQK AVSALKASGVQAQMAKQEQDFTNLVI SNLPLSMDEQELNMLKPPGQVISTRLR DSSGTSRGVGFARMESTEKCEAVIGHFN GKFIKTPPGVSAPTPLCKFAIDGGQKK RONPNKYIPNGRPFWHREGVRLAGMITL TYDPTTAAIQNGFYPSPIATNRMITQT SITPYIASPVSAQYQAKETRENYKRSIAI KVQSPSWMQPFIYILHDPGAVLTPSMEH TMSLPQASMSPLAQQMSHLSLGSSTGY MPATSAMQGA YLPQY AHMQTTAVPVE EASGQQQVA VETSNDHSPYTFQPNK
6292	14343	A	7043	1	743	
6293	14344	A	7044	2	171	
6294	14345	A	7045	1	350	
6295	14346	A	7046	2	1685	
6296	14347	A	7047	47	218	
6297	14348	A	7048	3	1716	GRCCCFSPDGKALAVGLNDGSFLMANA DTLEDLVSFHHRKDMISDRFSPGIWPI GEVTDVTASCLTSDKMVLATGDDLGFV KLERYPTKASSEQGFITARETPDKQCRQ EKETYRATAPSHIWDAMNKQTLILRC YHSGVCSVSFSATGKLLSVGLDFEHTI TIWRWQFGAKIASRAGHNQRIFAEFRP DSDTQFVSVGVKIVFWTLA GRALLSK KGLLSTLEDARMQTMALAFAGAKILVG TRNAEIEVGEKNAACNLYNGHVDGP1 WGLATHPSRDFLSAEDGTVRLWDIAD KKMLNKVNLGIIAARTVCYSPEGDMVAI GMKNQEFIIILLVSSLKIWGGKRRRCIAH DIRFSPDSRYLAVGSSSENSVDFYDLTLGP TLNRISYCKDIPSFVIQMDFSADSSYLQV SSGCYKRHVVEVPSVIQMDFSADSSYLQV WATWTSILGDEVLGIIWSRHAEKADVNC ACVSHSGISLVTDGDFGMVKLDFPFCPE KFAKHKRLGHSPHYTNIRFTSGDRHVV SAGGDDCRLVTFSAHEEQTMILLVKRLN TITPTALVYEIS
6298	14349	A	7049	1	5853	
6299	14350	A	705	1039	1560	SLVLDLTGLPRPTSPSHERGLDSSSSGPG LSTGP*ECSPDPNPMCPKVLPGPDQRCW NSHISTAPIAFPEPVRSR*SGSWTPVPATG ATLNPQRQGLAIPNSLVSSP*GPAGWRE LPSSQQAHPKRC*GALRSEN*REQGPDQ GCGNCFVKYGGRVGRVGVSGFVRTGCS RASN
6300	14351	A	7050	I	426	LKQIEEQRVQVQVVERAQQVAVQEQEI ARAEAEQMAKKAER/AFQLYQEAALQJLDM LLEKLQVAEEISGLTSANKITLVSSGS GTMGAAKVTGEVLDTLRLP/ESVE/RLT GVITLRLNLHKAFTALSLQSPQMPSLI AE
6301	14352	A	7051	162	1449	
6302	14353	A	7052	57	389	

6303	14354	A	7053	162	1581	TMFFTCGPNEAMVVS GFCRSPFVMVAG GRVFLPCIQIQIRISLNTLNLVKSEKV YTRHGVPISVTGIAQVKIQGNKEMLLA ACQMLFGKTEAEIAHIALETLEGHQRAI MAHMTVEEIYKDRQKFSEQVFKVASSD LVNMGISVVSYTLKDIHDDQDYLHSLGK ARTAQVQKDARIGEAEAKRDAGIREAK AKQEVSAQYLSEIEMAKAQRDYELKK AAVDIEVNTRRAQADLAQVLQVAKTKQ QIEEQRVQVQVVERAQQVAVQEQEIARR EKELEARVRNPAEAEYKLERPAEAEKS QLIMQAEAKVAASVRMRGEAELCP*GP EPRAEAEQMAUKAEAFQLVPRGVAQL DMLRRFSCPRWQEEHSGPLNFSPIRSLV SSGSGTGMGA*KVTEGEVLDILNSPCPES VERLTGREHLPRVNHUKPLKNSLEPSAL HRCPASLAELANDPPVACNPLGLPEHV H
6304	14355	A	7054	1	327	
6305	14356	A	7055	1	202	
6306	14357	A	7056	1	493	
6307	14358	A	7057	409	521	
6308	14359	A	7058	296	869	
6309	14360	A	7059	1	848	MPGLRVKMPCGPGISQDEAVWSMDNDF EVNKQHPVWRAATLAKDCKNQSQAQV TVYNKPASFKEAPLDLQHRLEFMKLGST HSPFRARVFFCSFISEPEDPATERLAFTER DAGSLRTLHERPALLVSSTSWTGKGF LREYYSLIYQKHFOHIQVCTPWLGAED YPLIGSADLGVCLHTSS*SGLDLP/L*KV VDMFGCCLPVCAVNFVKVFTLVKHEEN GULVFEDSEELAQLQMLFSNFPDPAGKL NSFRKNLPESQQL*WDES WVQTVLPLV MDT
6310	14361	A	706	644	930	EGSHGLGVVAHACNPSTLGNRCGVDDL SSGVQGGQGGHGTFFPFLQIKIQLAGHG GTRL*SSYLRLRWEDEGGRCSEPSRSH CIPAPWATE*DPV
6311	14362	A	7060	738	1902	FHILTEINSFNIFTMALNVAFVRDTKW LILEVCROFORGTCSRSDEECKFAHPPK SCQVENGRVIACFDSLKGRCSENCKYVL HPPTHLKTQLEINGRNLIQKTAAMML AQOMQMFEPGTLHPVPTFPVGAIGTN TAISFAPYLPVTFPGVLVPIELPTITPVI VPGSPVTVFGSTATQKLLRTDKLEVC EFORGNCARGETDCRFAPADSTMDTS DNTVTVCMDYIKGRCMRECKCYFHPPA HLQAKIKAAQPIQAAATVMTQSTAKAM KRPLEATVDLAFPPGALHPLFKQALEK SNQTSAVFNPSVLHYQQALTSQAQQH AAFPPTGSVLCMTPATSIIVPMHSATSAT VSAATTPATSVFFAATATANQILK
6312	14363	A	7061	1	240	
6313	14364	A	7062	3	354	
6314	14365	A	7063	1	621	
6315	14366	A	7064	362	720	
6316	14367	A	7065	1	2610	
6317	14368	A	7066	122	1840	
6318	14369	A	7067	1	1433	
6319	14370	A	7068	3	324	
6320	14371	A	7069	3	421	
6321	14372	C	707	185	397	
6322	14373	A	7070	3	552	
6323	14374	A	7071	3	600	
6324	14375	A	7072	3	550	
6325	14376	A	7073	1	102	

6326	14377	A	7074	3	1451	GAVRTWGRGFQTEKCCASLNFVNPP TAQVTIEAEPKTVSKGKDVLVHNLQ NLAGYIWKYQGMKDLHYHYTTSYVVDGQ IIHYGPAYSGRETVYSNASLLIQNVITREDA GSYTLHIHVKRGDGTGETGHFTFLYRH SLSALSLEVYTGSSQPL*DTWENCPTLW LHCLMTELTSGLDVSLPCVIAEVPSPRS GFPVSKGFKDNWKFHIFSLGCPWQGKL QRKHTSGGKVRKLRRFQHCLMQVRTT SLETPKPSISSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTISLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTILNLLPKLPKYITNNLNPRENKDV LAFTCEPKSENYTYIWWNGQSLPVSPR VKRPIENRILPSPVTRNETGPYQCEIQDR YGGIRSYPVTLNVLYTTKHSGLYACSVR NSATGMESKSMTVKVVSAPSGTHLPLGL NPL
6327	14378	A	7075	3	435	
6328	14379	A	7076	79	1516	
6329	14380	A	7077	9970	11210	MKDACGGIKGATQDNLSTQ/PKLPMP YITINNLPREKDKVLAFTCEPKSRNYTY IWWNGQSLPVSPRVKRPIENRILPSPV RNETGPYQCEIKDRYGGIRSNPVTILNVL CEYPLFLCGPGHQLNSKRPEARPLSLSPV QV*TTLLDIRPGHDSI.PWEILGRHLSNQ EYKGRGALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHLRLICLGSEGHCVPLR DQEHPLPLDDITCGFILFPDPGDLPRYP SFTYRSGENLDLSCFADSNPPAEYSWTI NGKFLQSLGQKLFIPQITTNHSGLYACSVR NSATGKEISKSMIVKVSQKWIPASLAIGF *VESIWI.SEK.SQENICIPRLCPMGTSKSI LLNPPNLSLQTLFCLFFCFPLMADLVSGI RKVGRGLYQP
6330	14381	A	7078	460	1832	QPVLEFRLDPRLISTEENTQAAETMGTL APPCTQRIKWKGLLTLASLNFVNLPPT AQVTIEAEPKTVSEKGDVLLVHNLQPN LTRATTWYKQGMRLHYHYTTSYVVDG EIIHYGPAYSGRETAYSNASLLIQNVITRE DAGSYTLHIHVKRGDTRGVTYFTFNLY LETPKPSISSNLPREAMEVTILTCNPE PDASYLW*LNQQLNPMTHSLQLSKAN RTLFLFGVTNYTAGPYECEIWEIRECO ARSDPVTPEFSSRKLKPKYITNNLPNGEE *GCL*TFICEPKSENYTYIWWNGQKPP/ VSSPRVKRPH*KTGSLIPTPVFTRKWKQG PYSMWNYGDRYGGIRSLPSSPLNCSSYG SRTSPRIIPHFITYYRFRENLDLFLGFT GIFNPPAQYSWDN*WKSFLTRGQKLF YSGHITTKHSGLYVCVSRNSATWQGKA PNP
6331	14382	A	7079	2	315	RWSLCP.LQAGVQWRDLCSLKPPPEFKQ FSCLSLPSS*DYRCPPPCANF/FFFFFLV ETGFHHVGGAGLNLTSRDLLTSASQSA EITGMSHCPRPFLTNSNRVL
6332	14383	A	708	3	521	CKMDAGFFRGTSAEQDNVRVSNKQK/L LKQLKFAECLKKVDMSKVNLVNIK/PW ITKRVTIELGFEDDVIEFIFNQLEVKA*T KMEVPCV*SIAPSPY*VTAE*VSQCRSDP TPLMMQCVFGNPDCKMMQNLGTGFLNG KNAREFMGELWP.LLSAQENIAGIPSAFL EL
6333	14384	A	7080	1	534	
6334	14385	A	7081	1217	1545	

6335	14386	A	7082	2	1665	KKKKKQKNKSSSTGEASENGLEDIDRIJ ERIEDSTGLNRPAPLSSSRKHVLYVEHR HLNPDTELKRYFGARAILGEORPRQRQR VYPKCTWLTPKSTWPRYSKPGLSMRLL ESKKGLSFFAFHESEFYQQAQHKFLVAV ESMEPNINIVLLQTSYPYHVDLSLLQLSDA CRFOEDQEMARDLVERALYSMECAFHP LFSLTSGACRLDYRRPENRSFYLYALYKQ MSFLEKRGCPRTALEYCKLILSLEPDED LCMLLLIDHIALRARNYELIRLFQEW AHRNLSQLPNFAFSVPLAYFLLSQOTDLP ECEOSSAROKASLLIQQALTMFPGVLLPL LESCSVRPDASVSSHRFFGPAEISQPPA LSQLVNLVLRSHFLWKEPATMSWLEE NVHEVLQAVDAGDPAVEACENRRKVLVY QRAPRNIHRHVILSEIKEAVAAIPPDVIT QSVMGFDPLAUSDITVSYVRPERLKSLS SHGNTUALFFRSILPNYTMGERPPEG VAGGLNRNQGLNRLMLAVRDMMAFN HLNMLEAPHEDDAEGEGEWD
6336	14387	A	7083	420	627	
6337	14388	A	7084	2	380	
6338	14389	A	7085	2	657	
6339	14390	A	7086	2	842	
6340	14391	A	7087	174	463	GSLLKQGMFPGSLNRRLPTESPLQILRATF L*KEVA*GLHQYHPLQLSGPVFGLTH LQSAVPFREKPDPPPELPSLRVLRRLDLS WGARTHNYGI
6341	14392	A	7088	69	194	
6342	14393	A	7089	1348	2204	TWRLDPQIISPKPQPGGTYTLEVVKSSK SKKVLSPHP*WPPLRLWQVGGSPGGT QAPDGSPLPPPFRPKSERVSGPKLSGGKR /EGSHPGGPPHITH/DGEEKAKSSWFL REAKDPTQKPSHPVKPLSAAPVEGSPD RKQSRSSLIALSSGLEKLTVTSGSIQPV TQAPQAGQMDTKRLKDSAVILDQSAK YYHLTHDELISLILQERELSRQDEHVQ ELESYIDRLVRIIMETSPITLQIPPPPK GAVAHICKSQQGRPRQAHLQSRV*DQ PGQNDETPSILKIQKLAGEGGRPLSQL RRLRH*NHLNPGGGGCELRSRHCIPG
6343	14394	A	709	730	983	
6344	14395	A	7090	2	762	
6345	14396	A	7091	2	218	
6346	14397	A	7092	7	78	
6347	14398	A	7093	553	954	SRSRRGOKRRRWSTVWRLSAGACALSM QTPSRTSWPTAFRAJWAEVAAWCRL RRPVWRVWSWSCLPPTITRATPLGARS WPGWRMWPLQAGSAVPILR*PLKF PLPRVPVGRPPSGAQSHREOCLQT

6348	14399	A	7094	1	1215	MTLKEHAFAKHLFNKAHLAPLIHLTL GHSTCFREHWVGDIVHRDLKLENIMVKS SLIDNNNEINLNKIVTFDGLAVKKQSRSE AMLQATCGTPIYMDRGWNSLEGSDQR KMWDLSLELPRDLLNVFEQNAADNDMD EIQAEBVSDGDEELLGNWSKGDSCYVLL KQLAAFCPCLRDLWNFKLERDDLGYLV EIEISKQSQIEATWVLLKAFSPFIREA NLENLPQDNAIEKKIPFSEKFKLAAEICI SNQEANVNPQDNEKNVSRACQSSQQP LPLPRVLGGKSGFVGWAQDSHAEIYTF RILGKGSGFQVIEATDKETETWAIKKVN KEKLLMKSNFLQPVRTTLICAVQVSHL ANSFQLKSREKWRKPL*1KEHAFAKHLF NKAHLAPLIHLTLSGHSTCFREHWVGD VHRDLKLENIMVKSLLIDNNNEINLNKIV TDFGLAVKKQSRSEAMLQATCGTPIY DRGWNSLEGSDQRKMWDLSLELPRDLL NVFEQNAADNDMDDEIQAEBVSDGDEEL LGNWSKGDSCYVLLKQLAAFCPCLRDL WNFKLERDDLGYLVEIEISKQSQIEATW VLLKAFSPFIREAHLNLENLPQDNAIEKK IPFSEKFKLAAEICISNQEANVNPQDNE KNVSRACQSSQQPLPLPRVLGGKSGFV GWAQDSHAEIYTFGRILGKSGFQVIEAT DKETETWAIKKVNKEKSTAYEKQFPAT SKDNFDMCSSSFTSSKLLPAEIKGEMEK PVTPSQGTATKYPAKSGALSRTKKKL
6349	14400	A	7095	1	770	
6350	14401	A	7096	7265	7684	IVSLELFIILLVFWWWCFFFFFTVLLFS PRQLCRDVTSAHCNCFPGSSDSRASAF RVARITGAHHDTWLIFCISDRDLVSCWS GWSRTSCLR*SALPKCWDYRCEPPCRA* FFFFLYPLTIPTLSLAPHYPPSLW
6351	14402	A	7097	1	344	
6352	14403	A	7098	3	285	
6353	14404	A	7099	346	517	
6354	14405	A	71	134	450	QSPDSMNAREFRRRRGMEMVDYVAYYM EGIEGLLVYDPV*PGYLRALIPAAAPH*L DICEDHSDAEKIMPLGSHWHSPLDFVY FDSVSSYARMLDMQCGALDC
6355	14406	A	710	108	418	GWGGLLIARPPFKRKGSSGPVGHKPRG VGRRG*NVNLCPKSSNPQGLGERPRE LRDKATVSALANFTARKGC*LRGPEGGO PGPRGLFKPGVPVGVQGOQ
6356	14407	A	7100	3	173	
6357	14408	A	7101	256	352	
6358	14409	A	7102	1	203	
6359	14410	A	7103	1	112	
6360	14411	A	7104	1	1213	
6361	14412	A	7105	3	413	
6362	14413	A	7106	45	537	
6363	14414	A	7107	2	224	
6364	14415	A	7108	179	393	DKWRRLPWKRGVEVGTAGSLAKAFGFF AEAKTEPREGCSESGVRISYQ*VQQTNS CKLKY*MEPARITFS
6365	14416	C	7109	21	410	
6366	14417	A	711	27	394	SPPFKEVGGGKFLNLGGQFVWGPKFGPL *SAKTKGTGSLK*GFKNPPAQGGKPPFF LKIQN*PTLGGGPLNPHLRLRIGGENF*T SEGKGGDPNLALCSPPKQKKGLLF
6367	14418	A	7110	3	178	
6368	14419	C	7111	134	295	MNSVPGLAHSVGLLRTYDSPKQPLCS EAVVLICKDLRSGWQKPGTGQIGG**
6369	14420	A	7112	3	864	

6370	14421	A	7113	3	155	
6371	14422	A	7114	1	122	
6372	14423	A	7115	84	579	NWKAGMGRPSTADYAMFKVVEVDK YRFTYAYFAGQDAEDAFDGYDFGDPS DKFSTSUNGMOQSTWDNDKFEQNC AEQDGSWWMNCKHAGHLNGVYYQ GTYSKASTPNGYDNGHWATWKT WYS VMKKTIMKIIIPNRLTIGEGQQH LGGAKQAGDV
6373	14424	A	7116	19	418	VEMGFQCADQAGLELLTSGDPASVSQS TGTVLSLSFFETESRSVAQAGVQWRDL GSLQRPPGSRHSPASASRVAGTTGARR HAWLIFYL/VETGFHRVSDGLDLT LTS* SARLSLPCWCWYRREP SAR
6374	14425	C	7117	207	401	MGXXIFXPLXKTPTFFPGVWGNFSPGP GXPPPPRGGPPPLFFPQKGGXPPPP KVLGLQA*
6375	14426	A	7118	2	681	FFEMESRSVAQAGVQWRDLGSLQAPPP GFTPFCSLPRSWDYRRPTLLANFV FV L/VETGFHCVSQDGLDLT LRSARLFFFFF ETESRSVAQAGVQWRALGSLQAPPPG SRHSPASASQVAGTTGARHYARLIFV FLV ETGFHRFSRDGLDLT LTS* SARLGLPKCW DYRREP PPRAVRVYFYNRSVFIEYVQFC KLLFTFKINVRSQNLGSPNLSLKNLN
6376	14427	A	7119	3	265	FFETESRSVAQAGVQWCHLGSLOLPPA GSSDSPASTSRVAGVTITAT* VAGTTVV RHAWLIFVFLVETGFHVGQAGLEHL DLR
6377	14428	A	712	59	306	FGTDRTA VQTS SQRCLCPWVAQKTYW LLVPSLLKDKKEKVEV VEA* NGRDAP ANGNAVSVCFAP EPWQLPPHKIFVLL
6378	14429	C	7120	359	583	
6379	14430	A	7121	279	566	FRRRFPLISLFFFLFFCFF FETESRSVA QAGVQWRDLGSLQAPPPGFT PALS PRL ECSGAILAHCKLLPGSSHSPAS ANRVA GTTGRHH
6380	14431	A	7122	237	523	PQEFKTS PGNVARPOLYN FFFFFF FETESR SVSQAGVQWCDL GSLQAPPPG SHSPASAS* VAGTTGAHHHARLIFVFLV ETGFH CVSQDGLDLT
6381	14432	A	7123	1023	1459	KGTRKRGQGIK VHLPILLFNLICFTFG LFLVFLFP FFFFFF FIESHVAQDGVQ WCNLGSLQPT PPGSSDPASAS* VAEITG TRHYAWLIFLFLV EMRFHVGQAGLEL TSQDPPASASQ SAGIRVM SHRGLVFLYY K
6382	14433	A	7124	1794	4614	RRFS FFFFFF FETESHVAQAGVQW CNLGS LQAPPPGSRHSPASASRV AGTTGAHHH ARLIFVFLVETGFH RSQDGLDLT LTS* SARL GPKCW DYRCEP PHLASI
6383	14434	A	7125	2	441	FFFFFF FETESRSVAQAGVQWRALGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF VFLVETGFHRFSRDGLDLT LTS* SARLGLP KCWDYRREP PPRAVRVYFYNRSVFIEYV QFCKLFTFKINVRSQNLGSPNLSLLK NLN
6384	14435	A	7126	3	226	CETESRSVTQAGVQWSDLGSLOAPPPG SRHSPASASQVAGTTGAHHHARLIFV LVLV ETGFHRVSDGLDLT LTS
6385	14436	A	7127	153	504	KHFFFFFF FETESRSVAQAGVQWRDLGSLQAPPPG SRHSPASASRVAGTTGARHRA WLIFVYFLVETV FHRVSDGDEL* KLYRE NSIENILVQCKLKVYFS HCSRSEITVTGN NLL

6386	14437	A	7128	3	313	FLFFETESCSVAQAGVQWHDLGSLQAPP PGSCHSPASASQVARTTGRHHPLIFFA VFLVEMGFHJIVSQDGLDLLTLGSGHL PKCWDYRCEPHHPSPSY
6387	14438	A	7129	3	307	FFFFFETESRSVAQAGVQWRDLGSLQAP PPGSRHSPASASQVAGTIGARHYARLIF VVFLVETGPHFRSRDGLDLTS*SARLGL PKCWDYRREPPRPAYF
6388	14439	A	713	171	565	TLAFFLIPCIGSPACPTMSDAADVTSSEIT TKGLKRRRRLKWEAEANGRRPCLTGN AENEGKWSKREA'DNEVHQKEE*CGEEQ EEEEEGDGEEDGDEDETTSATVTRAT EDEDDDAVA'PTKQTTRLDE
6389	14440	A	7130	2	91	
6390	14441	B	7131	3686	14131	MTNAFYVQKQNRGISEDAYPYVQGSY YNLVSSSQEESCMYNPTGKAAKCRGVR EIEPEGNEKALKRAVARVGPVSVAIDASL TSFQFYSGVYVYDESCNSDNLNHAVLA VGYGQKGNKHWHIKNSSQSAQTVLTPDE CLLLGYLDKGLKRRKDKAGSLQWAYM AIARLGGFMDSMPTGLAIWGX*
6391	14442	A	7132	8044	8378	YIDVKTTTTFFFFLPETESHVAQAGVQW DLSSLQPLPGSSSDPASASRVAGITGTH HHAWFIFVFLVGTFRHHLGQAGLELLTS SDPPASAPQSGAGITGVNHHTQPKQFI
6392	14443	A	7133	3	283	
6393	14444	A	7134	2	177	
6394	14445	A	7135	1	491	
6395	14446	A	7136	3	612	
6396	14447	A	7137	2	137	
6397	14448	A	7138	1	2631	
6398	14449	A	7139	2	112	
6399	14450	A	714	1	1497	
6400	14451	A	7140	67	245	AYNLSDGQYGLVDPEFEYFYLCCWLP L*LGGKCLWVLPVSVSGDRNDNDQAE NGSHL
6401	14452	A	7141	356	2252	RSFLDEEPHYDSLSCADAIQPLQEKLK QCCHKLYGGQEARHQTLPLTKHTCWY TPLLDALSDSFTA VPTLESTPFGVANQ IHTLCERPTYGEVKD GALT VKRQHKCPG PTSGPSPGTNLGSCIRMNDPMEENG ERVCPESLQSRGYSSLPLPRTSSTDTGT TSSDPGLEILNMACDLDRNSLCKKEED TRSASPTIEAQGTSPAHDNIAFQDSTSKD KTLNLEAKEEPTIEEHKEHASGDSVV SPLPVTTKSVNVQSENTSANEKEVEA EFLRLSLGFKCDWFTLEKRVKLEERSRD WAENLKKETNSLKLLESLPLCEDDN QAQEHKKLEKSIKFLSQCAARVASRAEM LGAINQESRVSKAVEVMIQHVENLKR YAKEHAEELELQKVLLQNERSPNPLEDD DDCQIKRSASLNSKPSLLRRVTMALLF LPRINYLGNAGMVA GMENNDRF*SRSS SWRLGSKQSEHRPLPRFISTYSWADAE EEKCELKTKDDSEPSGEETVERTKPSLS EKKNPSPKWDVSSVYDTIASWATNLKS SIRKANKALWLSIAFIVLFAALMSFLTQ LFQKSVDAAPTQQEDSWTSLEHLWPFT RLRHNGPPPV
6402	14453	A	7142	1	835	
6403	14454	A	7143	1	3735	
6404	14455	A	7144	2	1161	

6405	14456	A	7145	126	572	NFSSNKWNTSQNFANMDNSAQKNERTG KHPRRASEVQKNDIPGPGFYNVHOSPV SNSVSLSKGKTCMFPSMCARLDTVSKY PAANAYTIPSDFISKRDFSNSSCSMFQLPS FMKALKFET/PLAPNYNASVSCCKRRN NVCTRAGF
6406	14457	A	7146	1	1261	
6407	14458	A	7147	107	227	
6408	14459	A	7148	3	407	
6409	14460	A	7149	3	608	
6410	14461	A	715	32	3730	NSERRGLGMSLADELLADLEEAAEEEG GSYGEEEEPAIEDVQEETQDLSGDSVK TIAKLWDSKMFAEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIEN ELNIIHKFIRDYKSKRPFPELSLVPNALD YTRTVKVSAEKELGNSLDKVARIEEPW QQILTNAIMVVSVTASTPQQQLSEE ELERLEEACDMALELNASKHRIEYVES RMSFIAPNLSIIIGASTAAKIMG
6411	14462	A	7150	2	212	
6412	14463	A	7151	3	91	
6413	14464	A	7152	1	115	
6414	14465	A	7153	1	1279	MGDTTPRQFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNDSGCMCKAGFAGDDAPRAVFPSP VGRPRHQGMVMVGMMQKDSYVGEAQS KRGILTLKYPIEHGIVTNWDDMEKIWHH TFYNELRVAPEEHPVLLTEAPLNPKANR EKMTQIMFETFNTPAMYVAIQAVLSLYA SGRTTGIVMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILTERGYSF TTTAEREIVRDIKEKLCYVALDFEQEMA TAASSSLKESYELPDGQVITIGNEFRFC PEALFQPSFLGMESCGIHETTFNSIMKC DVIDRKDLAANTVLSGRTPCTGLADR MQKEITALAPSTMKIKIAPPERKYSVWI GGSILASLSTPQQMWISKQEYDPSGPM VHRKCF
6415	14466	A	7154	1	111	
6416	14467	A	7155	143	295	
6417	14468	A	7156	186	437	
6418	14469	A	7157	3	356	
6419	14470	A	7158	1	220	
6420	14471	C	7159	102	407	MDAGLEAMQKYGKAAPGDRTMLDSLW AAGQELQA WKS PGADLLQVLTAKVKS EAAAAEATKNMEAGAGRASYSARLEQ DPGAXAAAAILRAILEVLQS*
6421	14472	A	716	3	117	HKRPLMASYLLFFCSFVRVE*TIITCLT** ECHRYNR
6422	14473	A	7160	1	2302	
6423	14474	A	7161	1	178	
6424	14475	A	7162	60	413	

6425	14476	A	7163	2	1420	NSGVGAGARRAARCRAAAAVGTARS PALGMALLVLGLVSCFPFLAVNGLYSS DDVIELTPSNFNREVIQSDSLWLVFYAP WCGHCQRLTPEWKKAATALKDVVKVG AVDADKHSLGGQYGVQGFPTIKIFGSN KNRPEDYQGGRTGEAIVDAALSAALRLV KDRLGGRSGGYSSGKQGRSDSSKKDVI ELTDSDFDKNVLDSEVVMVEFYAPWC GHCKNLEPEWAAAASEVKEQTKGKVKL AAVDATVNQVLASRYGIRGFTIKIFQK GESPDYDGGRTSRDIVSRAILD.FSDNA PPPELLEIINEDIAKRTCEEHL CVVAVLP HILDTGAAGRNSYLEVLK.LADK.YKKK MWGWLWTEAGAQSELETALGIGFGFY AMAAINARKMKFALLKGSFSEQINEFL RELSFGRGSTAPVGGGGFP.TIVEREPWD GRDGELPVEDDIDLSDVVELDDLKDELD
6426	14477	A	7164	547	980	
6427	14478	A	7165	3	1290	LYSSDDVIELTPSNFNREVIQSDSLWLV EYAPWCGHCQRLTPEWKKAATALKDV VKVGAVDADKHSLGGQYGVQGFPTIK IFGSNKNRPEDYQGGRTGEAIVDAALSA LRQLVKDRLGGRSGGYSSGKQGRSDSS KKDVIELTDSDFDKNVLDSEVVMVEF YAPWCGHCKNLEPEWAAAASEVKEQTK GRVKLAAVDATVNQVLASRYGIRGFT IKIFQKGESPDYDGGRTSRDIVSRAILD FSDNAPPPELLEIINEDIAKRTCEEHL CV VAVLP.HILDTGAAGRNSYLEVLK.LADK K.YKKKMWGWLWTEAGAQSELETALG IGFGFY.PAMAAINARKMKFALLKGSF SEQINEFLREL.SFSGGSGNTL*GGGGS LPIVEREPWDGQCGRGFPWGDH*PSV DAELDDLKDELD
6428	14479	A	7166	335	519	ILFPSSOQGLRSSDQKAALKALL*FQKRS EMYKTK*FWGRKMSQFFSVVRHTNPG SRLWA
6429	14480	A	7167	2	386	
6430	14481	A	7168	311	493	
6431	14482	A	7169	2	82	
6432	14483	A	717	1007	1118	APGPCPNQTLARDSGWVG*KNHQLCTC VCVCVCVCVC
6433	14484	A	7170	51	347	
6434	14485	B	7171	188	353	XDVVVPVANCVGQYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYKDWHL CS*
6435	14486	B	7172	188	353	XDVVVPVANCVGQYNSNPKEHMTLRD YITYWKEYIQAGYSSPRGCLYKDWHL CS*
6436	14487	A	7173	753	1216	QVVEVGPPRGRHPSAAGCPSA*RRWKT RRAGWAARSPAQRRRRRPAPRRRLP GPEPGRRRGHRPPGLGSGCRRGRASRG SSSARVEGSSSLPPERKR*GPASEPEDA GRRVSAPPAPGARACTHARGSPRSSLR RRAAEARSALGLV
6437	14488	A	7176	27	285	VFFFFFLRRLSALLPRLECSGTVFLVE TGFTMLARMVISIS*PRDLPALASQAGIT GVSHRARPAFNFILNIPLLLWIF
6438	14489	A	7177	12	336	SPVQL*F*FLVFC*LWSWSAVVYLGPL GTPSADAHT/AGLSKTPPHWAARLDD VFSRLRTFSSHSLNMELVQDLTASAPMYS STSRDP/CLGLPKCDWYKREPPRAH
6439	14490	A	7178	74	463	HISQHDSYLVQVLLASYKTASFLLFFLRQ SL/DSVTQAGVQWRDLGSLQAPPPGFTF SCPQSPK*LSSWDYRPPRPANFFCITV EKECFILLARMVISISWPRDLPASASQSA GITGMSHRAPQVS

6440	14491	A	7179	1	412	TRMGLPDASRRRTCRMDPEGWQEAAMSS A*GRITLQRLSTGPEGGGREGKVGPEGG SENPPQPKAAGVLSKHLPGAPAQPPQRP PSSPPPLAGLTERVEKVCDFLDAAGDY LN/GTPG*PSPGESPAADQPPVPPWPP
6441	14492	A	718	1692	2123	SQPRFSWTQERLRI.FGMLLSNLSVQAOT QGPKLSCLGCLMAFTFKKMEPSMCS PQCFKGPMMGRLSGGQKFKNQAGQYH KTPSLRKSKKLASHGVHLWS*LLRRLR QEDCLILGIRGCELS*HLCTTPSATQRDP LS
6442	14493	A	7180	117	295	
6443	14494	A	7181	279	1065	IQHPRISADDFRVNCEPAM*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNRSQ QIEESTTVVTQSTIEVGAAGAKAMLTETLR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAEQ QCQAQEQYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTTR/ R*TRQIVDGKVVVS
6444	14495	A	7182	60	846	IQHPRISADDFRVNCEPAM*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNRSQ QIEESTTVVTQSTIEVGAAGAKAMLTETLR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAEQ QCQAQEQYQALLNIKVKLEAAIATYRRL EDGKDFNLGDTLDCSNSMQTIQKTTTR/ R*TRQIVDGKVVVS
6445	14496	A	7183	645	861	KYYRKRGIHSIDAASQTPDVVFASILA S*ATCKDLVMTF*CWVQEGISFHPCEAM GNDRTGKEKLPWG
6446	14497	A	7184	2	1327	RPQSLSPVLSLSPDSMSFTTRSTFNYS LGSVQAPSYGARPVSSAASVYAGAGGS GSRISVSRSTSFRGGMGSGGLATGIAGGL AGMGGIQNEKETMQSLNDRLASYLDRV RSLETENRRLSKIREHLEKKGPOVRD W SHYFKIIEDLRAQIFANTVDNARIVLQIDN ARLAADDPRVKYETELAMRQSVENDIH GLRKVDDTNITRLQLETEIEALKEELLF MKKNHEEEVKGGLQAQIASSGLTVEVDA PKSQDLAKIMADIRAQYDELARKNREEL DKYWSQIEESTTVVTQSAEVAEATTT LTELRTTVQSLNDLDSMRNLKASLEN SLREVEA/RKTPLOMEQLNGILLHLESE LAQTRAEGORQAQYEALNIKVKLE AEIATYRRLLEDGEDFNFGDALDSSNSM QTIQKTTTPPG*VGLGKVVVS
6447	14498	A	7185	2	345	FFFFFTESSRSVAQAGVQWRDLSSLQA PPPGSRHSLASAS*VAGTTGVCHHARLI FVFLVETGFIHVSQDGLNLLTS*SAAGL LPKCWDSEKLFFFGDKSFRCCPGWST MV
6448	14499	A	7186	178	388	RREPLHPANLLLFHFFEMESPVAQAG VQWRDLSSLQAPP*GSGHSPTSLS*VAG RLRNKNCINPDAW
6449	14500	A	7187	546	850	FSVLFYFFSESCLVLQAGVQWRDLQSL QPPPPGSSHSPTSAS*VAGTTGTCHHTQL IFIFLVETGFHHIGQASLKLLTS*FAHLGL PKFWDYRCPEPPHA
6450	14501	A	7188	4	410	PIERPHELKHRLPHVQKLVBDVGDGVIP AALEEGQAGWSHGLVFLVEIKSAEPP/P GPADSRVRGVPRQRSQASGA*FAGRQ DGVCRSLGQGRGGGRATSLVLHPPCY GCWFSVGVPSLQYTGIRSSSPRTG

6451	14502	A	7189	148	268	LQPR*PLTCAPPCPVQTQTHPSVSQTLT GLEFCCSLSL
6452	14503	A	719	1	371	HRHCHPSHTVDGRMESIDVATDGG*RTG VLAVSGLSVSLRTAELSTRKLLMNSBQRI NRIMGFHLGSGAVE*RHRTQSMQHDSD KLNSLIIP*SVSKRVVLVDVSVCTGTTDHHQ GVLERKVTTL
6453	14504	A	7190	397	1449	RSHPSTGTRRTSRI.ESWFLGVSCCKSKV REGPLGPA**AG*RGVPRQORSQAGPA* AGKRQDGG/SPEPRAGVGGVGTQSP/GP SGASGYPGMLVSKPVGGTSA SWLPAGC PIPS*LS*QRSQSPSSCLIGHLLALWAAF GLGVTSLPQYTGIRSSSPTA*ATVQQDSG HKGGTGGTGLGRGRNTOPDAACGRGHR SSPTR/PHGNPNGNTGCAEGQARSLLP KLAPKLPGWPFVSPVAVAGPGQARSLP AQYQSSLWDLSSPRNTLGRSATSAGPAP PALLGAGSGRSSGTSAPAPGCSRCHCW ASAPAGVSGPGGRGAEPSPSTLAQR GSPPGAIIIPACGHP
6454	14505	A	7191	47	1654	LHPVAPRPGCGGAGLAGGPCGWGQPR AQLWQQAAPGPPHPALPSPVPFTWP RLLSH*S/RPA/VEQCPPEPHVYPDPASS WVVKASAPPRVACPPAL*/PFGDSCSL LCTAGLRGPGHDTLPQWVRPHPGAS AEM*AHKPPPLAQKPPRPSISVPQSAQL WYPAGPWVPT*AGTWLGYGAI*SQGLF SFVMEHGPASLNPVKWEPHDRV*LG GR*GKSEVPRTGTPSLTGLFRGVPGQPPAI TGTOKHPPFNDMVSLISFFCLFCFGQL G*/PPGL*SIHIEPLTGLPGCQG*A**VLL STAGSAHAV**GSELVHLQS*LHFPSCFP PPVLALDLQVCRPALSAFLACGPPAIPGS WSPGEPVSLWMGVRGVVPLCGLSLYPA L*NLARRPGQPFTHGK/IGEGTPTPHKPC NHQVRKLGVLPGQGVKTKIEVGFWGPT R/PKAGETRG*VGRVPQSLA*PQCVPSEM LP*LSGTGPRSWG/PVLSPTPAHSQALRL CGHSPPCWSLVIGLELYFDAMKTLFISNV YIF
6455	14506	A	7192	4	496	NRRTERLGRWCPCTGA WPAVPVNLAKLA PS/HDSEQVSGSGCVLAQSMAPPGPAWR AGHHRRRSENPRPGFFGFFKRFGTNR GWSRRDDDPGGPGSGSRWPPAPRRGGQ WRCPREP*RRSSSAGRGSSPCALRHRA TKASSSCSPCPITKRERALLAAASC
6456	14507	A	7193	3	514	SVPKREELQGHHRVRGBEHRVWTRQDV LQHRLPATSVWTHP/LPPTARAPALGRA SGAARRTAARAAPLPAVPAAAAAPGRA RPTTTWPASPPSPRASPTAPSSACWSP TP/GSPFALRPLRAGLGA VYTRSRAHPRR PLPAHLCVLRHRATKASSSCSPCPPTT KR
6457	14508	A	7194	2	324	GGGFRPLFPLWRPKVPGPRVEIFGPAC PPWENPFSLKIPNLPGVVGPSDYSRFS LARKLPLTRKGRFR*PKFPLPSFLGKKR EIRFPKTKKKKIFINSSSSC
6458	14509	A	7195	3	344	ERQKLHYKYSKQFLTLDQDWNNTVKA EPEEQKLATMFREQQKSL*ARMVQRQ RH*NKLN*NQQFLRSLLEDLENQSSFTD EQSDLRKEMARIQTKLMKETLQDQLALI HSC
6459	14510	C	7196	68	319	

6460	14511	A	7197	56	945	HRKLDNRYSRIHMGCGSPGPEPRRAEPC PPRCMPTKETGAFRSHTRSLRGP*SLAE PPF/PRVPVSRGLSASSPPLSSRDAGLQ TSQLLP/SWGW/SFNSIPELDLGLSPTR LSAAFFCRSPSTGTNGKDATSOVDSPPH PSFRSPGLELSRCPGDPVTATSPHEWTQ GKDWRPCSCLVMQAPPTSHIIFLPPSR SLRRRAPSOGCPWGCGL/RPPAGPWATP LAGLPSWS/GVRLPG*GVLPASRSGO*G PPRHRPDAGSERPAAAAAGFAGP*VCSN SSALPSVYEGLL
6461	14512	C	7198	161	262	MLKGIFCLHPPLASSQSDNSQKCLQTL SLFR*
6462	14513	A	7199	132	1007	NPQAPQATKKEGRKNARKGGVSCSGVP WGPPPRKVPTVPWRAESP*GPESHAGFE SLRHGHAGAGPKGMPRLRP*ENTVSAE GSTGGESGARVPDGTGKL*PATHPLPWG SLSG*ETQRL*G/PCLEGG*Y/PGEAGQSL ETFLAVV*LGAAG*GWVEARDTFKHPTV CRAPT*KESSPPTQSGAGIGEEAAVWC QPHIGRRALQECGEHGDGRFRGGNHA E/PRDGGNEAAPTNNNP*THPDGHTSL*G/ VTGSP/PGRWGN*GPESSEPLDGPPIH PPTSWCGLFLRSFRLHS
6463	14514	A	72	218	428	LSSLPTTISRIFYNLS/CSHL*YSLKHFFIY LFYILFYILFYILFIFETESPLSPRLECKSGI SAHCNRL
6464	14515	A	720	3	408	DAWANARSVRLEVAAGLRDLR/*R/CSE WPLARATPFCFGSAMPYQESNLSQL ALESRQDDILKRLYELKAADVGLSKMIQ TPDADLDVTNIQADEPTTLTNALDLNS VLGKDYGALKDIVINANPGPFPLF
6465	14516	A	7200	59	326	TGLSPGEIGALPGLNV*APFFFNKNPL GAVGPPGVPPFWGG*ARGLGGPRSESEP LVGLGPLAFRLGTLGPVFKKNQESKKK TSV
6466	14517	A	7201	3	263	TLRKKFFQPGKTRFSPHTP*FSSFFPQKK EKL*GONPPKFPFKKKPPKCP/HPHSS PPPKSSSSQSHAPPKGPPPEPLKKNPP
6467	14518	A	7202	1	348	RYRSGIPGRRTAGETPSLLKIQQPG/GD GARS*SRLLRRLRQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKKKKKEFKPIY FLTLLWDVFRTOYTYISIPMCLLCGEMVT DI
6468	14519	A	7203	3	441	SSGSRSECRFLPLLFNVVLEILAGAIR/Q KE/KGHIHGKVKVSIKL*TEVINKFKVA/Y KIN/SKSVVCLYTN*NEQLEKKFKISSSS SSSSSSSSPNH*GKDLYNENLK*TLLEK KENKWINPCSWIRRLNNVNSILSKVY KF
6469	14520	A	7204	3	310	TINCVDITDIYRLLHPSTADCTFPCSSNGI FTNIGHILGKTHINKFISIEFI*CLLSDHRI KLEINNKTVWKIPYL*INTLIKEKCEBQF *NTYN*NPNTI
6470	14521	A	7205	3	88	
6471	14522	A	7206	2	1053	TMPSSVSWGILLAGLCCLVPVSLAEDP QGDAQAQKTDTSHHDDHP*TNKIPNLA EFASLYRQLAHQSNSTNIFSPVSIATAF AML*SLGT*ADTHDEILEGLN*FNLTEPEA QIHGFOELLRLTNQ*PDSQLQ*LTNGNLF LSEGLKLVDK*FLEDVKLYHSEFTVNF GDTEAAKKQ*INDYLEKGTQKIVDLVK ELADRDV*FALVYNIFPKGWERPEVK DTVEEDFHVDQ*ATTV*VVPYELKRLGM FNUJHL/KCLSSWGAA**KYLGN*ATRH LLSCLDGGGNLQHLGKIELHPTIHSFSL GEIEGQ/DRSCPALHFTQIVPLLGTGYFLK SVLGFNWGH

6472	14523	A	7207	2	334	RDPPGPGPAITARERKCAKHPSLHQTVI THLKL*VVL AOLTEEP THCHANPDLIFE DMEAMTDLELHELCCQDRHNNFQLDM DLILDGKGFQVVGCLSELKQKSSN
6473	14524	A	7208	1	306	LRRS/LCSVAQAGVQWWDLSLQPLPPG PMPFRLSLPSSWDHRRPRLPANFLYP* *RRGFTVLARMVSI*PCDPPASASQAG ITGVRHRTQPPRYVFM
6474	14525	A	7209	156	331	QPLILRCLPPRSYRFPNSPIKIQVTF*EK EKSLKLFQIQLKGP*HTKILTRKKVD
6475	14526	A	721	25	494	PLTVSERWPLARATPCFCGSAMPMYQV KPYHGGGAPLRVELPTCMYRI.PN.VHGR SYGPAPGAGHVQEEENSLQALESROD DILKRLYELKAAVDGLSRRIKPPRATLD\A ETNIIQADEPTTLTNTALDLSVLGKDYG ALKDIVINANPGSPPLS
6476	14527	A	7210	50	269	FRNIKHORDYNEQ*YG/NKIDNPEDMNK F*ETRYT*/PNLHQEEIGMLNRFVTKNVL *LVIKIPLTKKSPEDGFV
6477	14528	A	7211	584	1001	ILKLVGVGTG*TKVPPQVPTPHSRA*GP PRECLRRQ*PRP*SPGFPLSPTSVELM GVKTVLSQASRERGSWG*KGSPNGR QFWAQGA/LSWVAWGGGGWRGSSNG KG*QPGEGSSQLPLPPRTWRMGQGG
6478	14529	A	7212	79	315	ERDFLVRVRFQGFNLG*LFPLPLPL FSLGTLR/RNWGLRGPFTT*G*FLDFLKK RGFNVAQVGLKFWTSGDPPPL
6479	14530	A	7213	247	827	KYLEIVLLKY*RNSESCVFILKCSFSLIL LELTMKKILCLIV*LLTVQIVTQWIFV CPKTF*SAIFNKDV*ILILIVKLLV WVQVILSLILKLN*DYCVFVLLH*VLLF KNSLCVYELLDLFLYSMIKDN*KFCFVFL GPWKFFV*YFLRMSIYVHNKALALYMK MGLNQIKVMILLSSKK
6480	14531	A	7214	1	311	LNREKLKAPLTSGT*QE/CPLSPLLNNV REVLATAIRQEKERIGIQIGEEVTLSLFV DDMILYLKPKDKCTCKPLELNTFSKVA* YIMQISVAFNAKSK
6481	14532	A	7215	6	375	ESLRSFSRFS*FSPAYRGHGCSRPAETH NGDP CRAEALSDTPVPQSSGSDHNEKG PSRSPQLH*PGPWGPACGRGPAPT*PW RLPAGPLRDSQEDPSPPEFGSGGAAGQ GGG*GLSCFF
6482	14533	A	7216	80	251	GKFIHSKTL*NNILL/VQLSVVAIGINY RTSNVEVLLQLEDQNTFPNEHLAYR
6483	14534	A	7217	161	333	GKFIHSKTL*NNILL/VQLSVVAIDINIY RTSNVEVLLQLEDQNTFPNEHLAYR
6484	14535	A	7218	3	299	PPFRTHQAREFAPTDQWQGFQH/RP/G VRKQKYL*VDTFTG*VKAFPTRSDKA TAVITSLSDIIPRIGLPTCQSSSTLALISQ ISHPSQAAITQ
6485	14536	A	7219	526	1108	TQTKNSKIYFN*LF*ETGPHSLSPQAGV WVHSHSLQPPGLKVPHPHSLSSWD YRHTSLRPAF*KIFVETGSLHVAQDGLE FLGSSPPVASQSARIAGMSLGARAPC LK
6486	14537	A	722	358	445	NSFGRTIFFY*FFFFFFFTIQTKGGPL SPFFLLFFINPFRFFFF*TPILRALAIF KPPFFKIVLAEPYFFFTNPQLMRGGGG FSORG
6487	14538	A	7220	181	272	IQSWFNILKSIHVHHSNRLK/VNHNIVSS SSSSSSSSPPLIKKQ*KG
6488	14539	A	7221	2	334	YDEEWRRTSVHPDEVGNLK*EDR*ALQ NRLRVFLSLMDTGWLDNLLDIDKADVI VKMLDAISVIKMEGGTDNDLNI.DQDVE DEHA*KPGPSKNEEGRAVSLGDGERK

6489	14540	A	7222	1	323	VVSYLLVFESSK*KKIIYQDCIGFVQDC LNINPIDSLRGKNVILSLTEKVVVGKIQ* PFMTKIFSLGIEGNFLKWLKYQOSTVS LLNV*ILKAFLSRTE*GCM
6490	14541	A	7223	2	690	ATYIVDFGQFYNNIREGOMLTAFCGMYP YVAPERSLGOACQ*PARDIQSLSVILYFR NTVGRARTLPFY/EAESKLQBKILTGR YHAPPLFALQLDSL/IKLLMLNARKGPSL *LMKNPWVKRIQKMLPIPYEPLRGFPQ TIQLMVAMGFOAKNISVAIERKKNYPM ATYLL*HITQERKCTSTRELSPPGVATS PSPSTELSTFPLSLMRAHREPAFNVQPPE ESQ
6491	14542	A	7224	2	338	SSSYTPEYWO*RSRSHSPMSNQRRTHGR RANPDNTCLR/VFGLSLYTTDRDLREVC S*YGPLNAGNVVYNQQTGRSQGFVHF F*GIDDSKEAMVRANKELDDRIKRVDS YS
6492	14543	A	7225	604	841	RPGGQFCLMEASPSGFNPFFLLNLPREW ELRVPPPTGRNFF*FLKKNGF/EVNPGGF DFLN/SNDPPAFASKGVGLTALTP
6493	14544	A	7226	3	343	HEPNGFYAEIECERCNSPELDEEGYSIIPD EPGSTNGKHFYSSSESEY*B*SHKIYQIQK PSLSTDIILNNAAPVDELKASIGNIALSP*P EGAIRKNLSREEVARPRRFTSP
6494	14545	A	7227	3	304	HEEKNEKIRNVGLCAIVQFTR*YL*VCL *RSVNS*NCCWRIVFNIF*PL*TFPSKP AKSLHTQKNROFENEPEENFWMVMVFT YTVYLSSEIVWVELW
6495	14546	A	7228	1	167	SARGPDGFTAIFYQTFKEELVQILLKQFQ RIKGESSLKSL*ETSILIPKTRKGT
6496	14547	A	7229	2	334	ARDRAALETVIRRARPELRPGVGQIPR VHELKIEEYQGRGLQVGLDPQLPLNLIA ALYAHVA*EKRVVSILSRILIVILVESLI LLIHLTYGYQLSILCTCSVGNIF
6497	14548	A	723	452	764	LLFSKCRAVEKNLSKEDPHMETIKVAFV MTSGERDTGLTEPMAO*RG*GS**DGP ARGHETSLGHRGVSGDGGSMGPSLTAN ALPSISRPFPSVSDTSGSAPL
6498	14549	A	7230	1	792	FFYREVKPSLFVDCKILITEIPKES/NRVL QITRELKMLAYKVSMLKSILFILTREYK KVKMPFNIVY/NTKYSRINLMKDIYDL YTAYPSTAALKYRMYCNLQNIARNR* PPLNKWW/REE*YSWIEGLVVKILVFPKQ IYRFNASPNKSPPLFNKLIKFPK*KYKG RRISQTNLGR/TLQDLKIYYKTTKLNIV WYWYEVQRLLPPAPQSAPIPRTCWQLS PSDLQGLKGAEGLTDWGGKQSGTEITS GHLPLSTFG
6499	14550	A	7231	1	2541	
6500	14551	A	7232	560	901	GNPATTSHCSLPQPTPQEGAA/YNPDEF FF*KQP*QPKQVSSQPPWPLSTSLPPACP SCSRSRAPAVPAIQAISAILPLPGQSVER LCVDPRHRQGPVNLSDPEQGVETG
6501	14552	A	7233	13	2931	EGRQQSPAADVKTGLRAPLAASAAPH RCCVRRLLARITMKPPRPVTRCSKVLVL LSL LAIHQTTTAEKNGDIYSLTVDSRVSS RFAHTVTVSRVNRANTVQEAFTQMEL PKKAFITNFSMIIDGMTYPGHIKEAEAQ AQYSAAVAKGSGAGLVKATGRNMEQF QVSVSVAAPNAKITFELVYEELKKRRLGV YELLKVRPQQLVKHLQMDHIFEPQGIS FLETSTFMTNLVDALITWQNKTKAHI RFK

6502	14553	A	7234	3	338	DAWVSVLCCNLSSEAKRRINSLSYNQCEN JRRLPSF/RD/VWNGENSRYVEKQASQQ VELLTNERYLEMESQLLQYLHVHYHMN YFLDLTCRPTFYCYLLEAPIG*PMCKGYL S
6503	14554	A	7235	147	380	ASCRDFDFCLLCYRVLSNLTVFCFAJR YFNIMSPCFITFFLYFWL/FCYDFLLD/ YVF*TLILVLVCFPFVSEVMFLI
6504	14555	A	7236	1	257	PTRPDFFAQQOHLTPDKIYHVTVMPCYD KKLEASRPDFFQEHQTRDVCVLTITGE VFRLLLEEGVSLPDLEPAPLDSLCSGAY *EPTSHRGGGGGGYLDHVFRLHSLQLFD S/DVV*VSSHRLR**DFFAQOQHLTPDKIJ HVTVMPCYDKKLEASRPDFFQEHQTR DVCVLTITGEVFRLLLEEGVSLPDLEPAP LDSLCSGAYA
6505	14556	A	7237	2	502	PVWNLQRRTSAGPGTAVPGLAVA*FR QTGLTRSPSSGRDGAAGVRLWNPPPPV IPLPLGFHLRGPDSTLAEQPSACLPGS/PP CRNGLGQPQOQHGLWPG*IGIQRLGFH GNQGPFGPSNLPYPPLFAALPHTRHVPC /LHCCPLTWAALPTLCLWRCSAJQD
6506	14557	A	7238	1	828	
6507	14558	A	7239	2	775	NISREMLQOQSKILKVRKNLVKKCLELFT ELAEADKENYKKFYEQFSKNIKVGVNNH* FSNWL*FFFFFFNSESCKEHTLFLQGIH EDSQNRKKLSELLRYTASGDEMVSLLK DYCTRMLKENQKHYYITGKRTLCSYST RRSYNLVGSVGVFSTQVALLQLVLI*AR* LT*TRFSVLGSA*VSG*QEKSEDELTLN C*KV*K*LCNTSGETKDQVANSFAVERL RKHGLEVIYMIPIEDCAQOLEEF*GK
6508	14559	A	724	209	384	KYETIRYRDSVKGRFTF*HLTKNCLHRL AIGLGADDSHFYSCANDVADSGTILFFD S
6509	14560	A	7240	1	2303	QLLQRPQVAVPLVLCGLHAKMPEETQT QDQPMEEEEEVETFAQAEIAQLMSLINT FYSNKEIFLRELISNSSDALDKIRYETLTD PSKLDGKGLHINLIPNKQDRTLTIVDTGI GMTKADLNNLGTIAKSGTKAFMEALQA GADISMIGQFGVGFYSAYLVAEKVTVIT KHNDDEQYAWESSAGGSFTVRTDTGEP MGRGTVILHLKEDQTEYLEERRIKEIVK KHSQFIGYPITLFVEKERDKEVSDDEAEE KEDKEEKEKEEKESEDKPEIDVGSDEE EEKDGDGKKKKKIKKYEYDQELNKT PIWTRNPDDITNEEYGEFYKSLTNDWED HLAVKHFSVEGQLEFRALLFVPRRAPFD LFENRKKNNIKLYVRRVTFMDNCEELIP EYLNFRIGVVDSEDLPLNISREMLQOQ/S KILKVRKNLVKKCLELFTLAEADPANY QKIFYEQFSKNLKALEYHEDS:QNRKEA FPELLRYVTSASIDEMDTLKDICTRM KENQKHYYITGETKDQVANSLSLCTGV FRKHGLEVIYMIPIEDYCVQQLKEFEG KTLVSVYTKGLVLPDEEKEKKQKEKK TKFENLCKIMDKIEKKVEKVVVSNRIA VTSPICCVITSTYAGWTANMERIHGKLQ ALKETTSTMGFTWQPKHLEINPDHSIE TLRQKAEADKNDKSVIEGLVILLYETAL LSSGFSLEDPQTHANRIYRMIKLGIDE DDI*TAADTSAAVTEEMPPLEGDDDTSR MEEVN
6510	14561	A	7241	158	405	RMNLDSDGMDIISQESSILDMEGNYKC AQKNEREAIRLJLAL*SFDDGSRITYS/CE QSQKQIFSPH**GINFQIGLSTTWSF

6511	14562	A	7242	3	442	TLLMFNNVSLTLTFCMFLFSLFCTED VPTCGSDCKVLECGIHRCSQQRCHRGPC T*VIYFHAFVQAGPECLHCEECSKSRPL GCLHPCILRCHPGCEPCPCVOMLGTAEAS VLPOACHCPQFCLOSPFLLFTHKEPQSSW SSG
6512	14563	A	7243	2	322	SGWSLTQODPYNVINRTAIEAMAAVFG TQSLHTNSFDEALGLSVTKSSLIPFSLHF LFS*QFSLYSISILFILIFFFYLLSLIHFFY IFYLISILFFFLFY
6513	14564	A	7244	1	361	RELLAFWQNFKLRPQGPFFSPAGPGGEKK R*SLKTPPKGGPPGP/SPNGRLPSGGQLP PFRGG/SPQSSSLPKGPQG/WGPPFP*RS PCPPHRIQVPQVSSSP/TGLVFRGPLNPG NLGG
6514	14565	A	7245	115	313	LVRSLTSLPHSPNPTLSLPS*LPPYGPVY LSHYPPSPPTSLTHPPSPSPPTSLPPSP TPTS
6515	14566	A	7246	2	326	NEGECRKDVEMEPVLQAEKTNFQNHKG HEFIPTLWHFPANCDACAKPLWHVVKPP PALECCRCHVKCHRDHLDYTDLLIFPCN IRYDVSSLTRYS*LLHFSDETH
6516	14567	A	7247	1	364	EHTRAEDHMLEEREER*RAERAQREE*L PEYQERMKT*EADRNIRPRELEIEERER RTEERILGDSSLRKDSRWGDRSEGA WRTGPEAHSEWTIGSPQMEWRP*EWLY DDRSYTG
6517	14568	A	7248	86	512	RGRVEAAPGYGSHLCHNFPCTYVWQKF GQPPGLQRTAASYSDTMLGTAEHTPT FAFFPAQGPCKESWQSRDTSARSETLGT ACSYNTGNWAGAAAAGDTEDLQWLQ RKRE/RSERKTRTDLKGVRTSNGTARDD NCAYSP
6518	14569	A	7249	2	703	PDCPSRPT/YARGTSPGNKTENAHKGPKS VSSAPKMR*SLQDTG/REDTREPVRHTD TGTEQTVIFAD*KIAGRCKT*GQFPRQR PPHGGGSTPOLFSAAGTSFPARFPAVKV HGFKTSPTGRGGHWANTRSFSLATK KRESERKTRTDLKGVRTSNGTARDDNC AYSFPHRRERGAPPAGHLYRRSVCARKN HIVLSKTQGRSVRRDHRRSRSWLRFP VSHHMRRSOR
6519	14570	A	725	68	362	SLPTIRECIYHVHAGDHIGNACWELYC L*HGIHPDGHMPRLDTIGGEDSNTFF ETGASEFVPRAAFADLEPTVIDEVGTVY GQYLQL*QLIK
6520	14571	A	7250	148	357	LGIIDLTKKVKLSKKNYKTLMKKIEDDS N*KDNSCL*IR/MTILPKAIRFNTISVNP MRFLPDWADAW
6521	14572	A	7251	1	389	RGAQAIIHV/NLNDVASLEHFSKWLADA LKENDLPSVLLFLTRAQYALMEKDALQ VAQEMKAEYWAVSSLTGENVREFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKTCCP
6522	14573	A	7252	1	144	
6523	14574	A	7253	174	809	DORGGNWAYECQWEGPCRLTHPLSTS HGRQWLADALKENDPSSVILFLVGSKK DLSVSVPPVGPLPSLVRECPPLTLAFQTP AQYALMEKDALQVAQEMKAEYWAVSS LTG/EVGGFRALL*HSCALLSLHLQLC PVSPPALPLSTYLLSVSGENVREFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKTCC
6524	14575	A	7254	1	524	MERFEVLGIPFSLQWDTAQOERPKCIAS TYRGAQAIIHV/NLNDVASLEHTKQGV AECLKKE*PSRVVFLALLGFKKDLSTPAQ YALMEKDAPFGGPRRLKAEYWAVSSLT GENVREFFRVAAALTFEANVLALEKIG C

					GLDVIGMFVRINSDDSNLYLTASKEEAP HVCP
6525	14576	A	7255	1	258
6526	14577	A	7256	2	562
6527	14578	C	7257	30	323
6528	14579	B	7258	249	374
6529	14580	B	7259	77	867
6530	14581	A	726	1	1254
6531	14582	A	7260	93	1049
6532	14583	A	7261	2	643
6533	14584	A	7262	59	339
6534	14585	A	7263	2	519
6535	14586	A	7265	3	317
6536	14587	A	7266	285	672

6537	14588	A	7267	3	231	QIEQLHRRF*AA*/RGDOPTIRKENFNNV PDLELNPISKIVRAFFDNRNLRKGPRLG ADEINVEDFLTIMFYFLSI
6538	14589	A	7268	88	360	KINMGILLKLVYRFSIHPVKTAPGLF/TK NEQ**TEFDKRLKSIWKCKE/PYSTRIMF KKTEAKGLPS/PDFKTYYEATPEKTS*D QQKDRYKE
6539	14590	A	7269	2	355	RRLFFFFFLRRL/DSVAQGVQVWHNIG SLQAPPPGFTPFSCSLSPSS*DHRPPPCP ANFLYF**RQGLTMLAKLVSTS*PCDLPA PAHQSGAGITDMSHRARLIVSLFRQKTY GNN
6540	14591	A	727	65	1552	PLKAKMGKEKTHINIVVIGHVDNGQVSP LLGHLIYKCGGNDKRITIEKFEKEAAEM GKGSFKYA*VLDLKAERERGITDIDL WKFETNSKYVYTPFDAPGHQRLSKN MIYRGHLKA*PGLGGPLGGVLP*LFAA GVWWNLKAGISKNGQTRERHALGLHT WVWKQTKLFGVKNWIST*GHPTAQKK ILKEIVKGKSA/LTRKIGYNPDTSILCPIS GWINGDNNAWSPNAINMPWFQGDGKVT RKDGNASGTTLEALDCILP/TPRTDKPL GLPLQDVYKIGIGITVPGRVETGVLKP GMVVTFGPVNVTTEVKSVMHEALGE ALPGDNVGFNVKNVSVKDVRRGNVAG DSKNDPMEAAAGFPAQVILNHPGQISAG YAPVLDCHTAHIACKFAELKEIDRRSG KKLEDGPKFLKSGDAAIDVMVPGKPMC VESFSDYPLGCFVAVRDMQRTVAVGVK AVDKKAAGAGKVTKSAQKAQKAK
6541	14592	A	7270	1	336	RGDTGRTLAQRGARSSG/LPTV/LNPRGR LTSAG*PH*YKARAAMPTPSLVRPVLK VGHSPSPSEVSGAAELAPWISSPLYNPSS LPGPASSPMPINSSSLASPSYTVLV
6542	14593	A	7271	1	371	RSRPENLDYKDKKAATKNVQK*MQRO KG/DIAIDATETQRIIRDCEHYNNKSSSS SSSSSSSSSS/PSSSSSSSSS/PSSSSSSS SSSQSLPSKKNSGSEGTAEFYQRYKTPL ILKLFKK
6543	14594	A	7272	2	406	ARAARVFLHRTSLNLSNGGTQC*KTMV VHDDEYSEPCMTSPKEGTLIVROTQAS STLQKHSSSSSFTEIDPRLQISPSGTTV TSVVGISCNWMP*SIKHVPTQKQSLSF* ISTHTYPSAFCVIFLHYC
6544	14595	A	7273	1	165	GSLPLLFNILEVLAKAIRQESIQNEKE KV*LSLLTDHMI/YM*NPTVKKLTT*KL T
6545	14596	A	7274	110	409	
6546	14597	A	7275	53	930	ARSYRQLTMEANGLQLRHDTYPHPH LIARPQGPPELKNITFLRAAWGEETDYT PVWCMRQAGRYLPEVRETRSAQDFST CRSPEACCELTLQALRRFLDAAIISDIL VVPQMFSPPALGMVEVTVMPGKGPSFP EPLREEQDLERLR/DPEVIVASELG/VYFQ ATTLTRQR/LAGRVPLIGFAGAPWTLMT YMVEGGSSTMAQAKRWLYQRQASH QLLRILTDALVPYLVGVVAGAQLQLF ESHAGHLGPQFFNKFALPYIRDVAKQVK ARLREAGLAPVPM
6547	14598	A	7276	86	552	KQPQTPAPLWQPLKLSKGLGAPGHGPC CLHLLSALGSLPGLVPWLPSPRVGC/SS*G LLLTSPQPSADPGQRRVALHHVL*VEP FASQEAQPPSLP/WW/PLRGDITESPQGS PLSARCTHPGCRSVRGRWGRARGWP CQAGAGPGGWRTTCPCR

6548	14599	A	7277	176	779	NSVSKLGLAPGHGALLPPAERSREASQI PRGRAPGVHYILCLKQPRPRGLLGPQONE RPLPSKPHLCAGLCLGGPGTSPLPETIR NWARRPPEA*PQGAC/LLLSLGDPRGVG *PWV*TPGGLVFWMSLWHFPGQLKPPPL PRSLRPRPSLDDLGRKRHQQDEKPGGA APQMRAL*PVLPLPHPGTAPQLVTATR KP
6549	14600	A	7278	32	492	FALVQGAGTQ*CDLGSVQFPPLGFK*FSC LSLSS*DYRHVPPCWLFVFLVEQGFVI LAKLVSNP*PQ/CDPILASQ/SAGITGVS HCAW/L*LSFSFC*DRVSVTQAGMQWH DLSLQPLPLGFN*FCSLSLSSWDYRCV PPHPANFFISR
6550	14601	A	7279	19	253	LENSFLKTLPLAIACRNIKYMNLTKCESC KLRETKDLNKWGSTPCSTIGKLRIVKMS FLPKLIYKSQKTFFLQTLIK
6551	14602	A	728	344	803	KRDPSLSAYPFFKCNLLSTLHFMIAAYAS LYFIYTEPVFVQHDWLHSHKAL*IPHHISPS TTHIPLTMVSPQYTEHYIVTKLGEFQVSK GNYIHKRFCAIAQFTI*LVITQPTMLR*ISD YLDKYIGFCQPQMKQERHTYSPPYQGC VYSSVQS
6552	14603	A	7280	3	1023	FLNWKSKILYSTDDMIYIENAKESRKKL LE*VN*SKLLDTRSMYKSNFLYTSNNL GKPAF*KPYPLAIACRKIYMNLTKCES CKLRENKDLNKWGSTPCSTIGKLRIVKM SFLPKLIYKSQKTFFLADIDKSCFF*DSFT PGLRLEWFWPWRSAH*KPSNLPGSSNSP GLSLPSSWDTSACHRRLANFFVFLVEM W*CMPTVPTTWEAKERAHLSPDVRGYIS CDCATTLQPGQNEISASNKTTVINIVSY WCKVIHTRKW/CPEQTSMSLRVFTNL* RLGHWESRVSTNRTEPTNHTDKVNL PYHIWYTKMNSKWITDLNVKGKTIKVP
6553	14604	A	7281	1	407	DVCKPDLTVGLRYAPHQYKSVVATNLP EAKYWFLNWIADLSKAAPRNNDALGTS AQAYYGYRQKEQILL*EEDALTGTNESL ERQMREMEENFAVEAANYQDTIGRLQD EIHNMKEEMARHLREYQDLLNVKMG
6554	14605	A	7282	1	3003	MNIDAKIHNKILANRQJQHIKLIHHDQV GFIPGMQGWFNSTKSNVQIHNRINDK NHMISINAEKTFDKTQQQFPLKTLNKL JDTGYLKIRAIYDKPTANIIPNGQKLEAF PLKTGTROGCPLSSLLFNIVLEVARAIR QEKEIGQLGKKEEVKLSLFADDMIVYLE KPIISAQNLKLLTSNFSKVSQYKINVOQS QAFLYTNKRQTESQIMSELPFTIASRIK YLGQLTRDVKDLFKKIYQSLN
6555	14606	A	7283	2	178	PRVRWN/RKVQKQIHSHYGG*IVDKGSR TIQ*RKNSVFN**C*DK*IFTCRMMNLYL YFVSSSSSSSSSSSSSSSSSL*EENTGI NLHDLGFGNGFLDMPAKQATTA*LYL YF

6556	14607	A	7284	699	2526	MOYNIQVLYLDELHGLNLTINKFIH RSIVANNLDDLDEKTHQLTKLAQKEIKN PNRPVTSKIEFVVKNLPTKESGLNEFT QQYYQQTY*RKELTLILELSQKMEEG V/VPVTFYKADITLTPKPKDGLTGNVYPI SLMNDIAKKLKILAGQIQOLKMTQOHD QVRFIKEMQGVWFHMQMSDVIYHINRM KGGKHMTSIDKKKHLTKIQHPVAVKTL CKLGRKGNFLNLKITSIKTHS*QHNSKTL KIFPLIS*KFLISPLFNILEGLARAIRQEK EIK*DIQGRSKTTFEANNMVLVYKNPKEST K*RLIV*KFSNVAGCKINTQKSKKNLRG N*/RQ/PPFTT*KRIKYLEINLTKVQDLD TEKYTKLLKEIKEDLNKWNILCQWQVG RLANVKMALLPKLVYRFNTPIKIPVT/LF TETELKLEFIWGLQV/N*RYSSLFKTILN KNKV EGLTFSNFKIVCKATSITVLCWY KNI*SNRVEVWKVQKQITPHULWSDFPW RGSRTIQ*RKNSVFN**C*DK*FTCKRM NLVLYPIPIYKINSR*IKDPKCKSVNPKL *EENTGINLHDLGFGNGFLDMAFKAQAT TAKKKKK
6557	14608	A	7285	2	577	KKIKNIKGSIQQGLTVVNMYAPNDKPS TYMKQKLT*LKGEODNSTLIVGVFNITISV VDRT/SQYLSKEI*DFHNTINQLDLTIYIR TLYPTMKYTFSSIHRSKIGHKLSLN*F *KTAINIPFDHNGMNLVIIPKKJTGKFN HRN*HTLN*HKETTRHWLKITPRLWP WORVRFGAQSLQGPQLTAR
6558	14609	A	7286	17	377	QRKACAPRAWSGDPSACRPSVRS*GSTT *G/KPVNFDDYDGIYIPAVNLKIFIRELA ESLLTFQAYDQILGITCEYLPWRRSOGLS PHMLSLIYWPMVRLWGRGDVYPSCYC CHMALYGM
6559	14610	A	7287	1	893	SISSQQT*SSWAPCYRSLPASTWASSLCS SSSLISISFSSVYSSPPGSSITLASILSAFF *PLDFSSLASVSSLLPSNLITFVSWLPAS PLSSLAPASTLVSGLPSASSLMSSLPFGS ACLSSPTSQHACSS/STLSQSLPSTSCCLS LQTP*TLPDWGFRRSQKGT*V*S*ALRKTS SPFSSSTSLGPAESREQQLGAKTNCASS RDRSSRCGSTENSS*GPIPRSSSR*PIPGS SSPGEKAAPASAWAASPAPTHSGYE LLESSRKEKESCTSWDSESSRAGAKSSGP ES
6560	14611	A	7288	827	1393	ARCRQAREDGRLVQRLCRRGHFVPLQH RRGAQERAPGIAHSSCAAEPRLSLRTDI SSALVWPRASCARSCPEMGPPNLK WAS GA*TLIECPPLSGSPRKNLD*PPGLEEPS RLEGGTPSSALLKG/PAPTYLPFYALEDL PKPTSA/VQHSPTYPHVLPIPPTPSSWR VVAVGALCSRQDNLHDQFRL
6561	14612	A	7289	104	464	
6562	14613	A	729	209	372	KRKKILRINKTS*FFEKINKIYKMLTHL RRDKRQKKSEIKKGDIITDITEMKK
6563	14614	A	7290	2	394	PRVRNHPIQKWAKGLDHSLSKEGPQ/A AISHMKRCPAS*ATRE/VQIRATGETHLR GCGNIGLTRC*WGCK/LQPLWKPVW WFLRSLSIGLRCD/VATPLLSV/WPQAC KPGTQORDLITTVFTAALFTVABEQ
6564	14615	A	7291	2	344	DTRTHV AEEBKLAIIVEPEKRGKYVWVF DPLDSSNIDCLVSVATIFGFIYNSSD*P SFNHA/LST*RNLYLVSLPFLA/LSTFHL SFLFFLSFLSLFSYLFLLFSSFS
6565	14616	A	7292	1	348	RYRSGIPGRKTRAGETPSLLXIQQPG/GD GARS*SRI.LRRLRQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKSKKKKFKPIPIY FLTLLWDVFRTQYTSYPMCLLCGEMVT

					DI
6566	14617	A	7293	10	436 EYYRFLEAKENRTATY*NLMDHAAKAE LRGKFISYIAYIKKLEKFOKMLTQSKK LEKFP*IKKSSNVFORARKEQTKPQISQRK *ISEKE*TKLRLNQCHKSLKQPLLS*TK KDQNK*MRKEKGDILSGRVGRPEYLQ T
6567	14618	A	7294	2	403 CPTSTSTSWTMWGPACREHL*PLPTFP GQQPNTLP/RPTLRP/S*PTSAACS/RP*/P AVPSRPSHPSHLPPSCPQOFTFNVPHL**G GPHPTHNLPPNCPALLQJLPGFSTLPRLS P*TPPTTPPICHCVSRFLAP
6568	14619	A	7295	27	88 CREEDDDLVESEDS*QWGESLKRVSFTL LDDEATEDAGDLNVKKNSDEVKSFEKR QEKESA*VGRKMMT*WLKVKVTNNGEK A
6569	14620	A	7296	109	409 KFKNMWKLNDTL/LNNHWVKEIKEIR KYLKRNNENKNTTYQNL*DSAKPVLREFV VINAYIKIEEGSYISNLTLYLKDLEKEIKA KVNRRKDIRITEIN
6570	14621	A	7297	13	811 VCRRWSGGLARRFGSGCCSSCPORRA ARRSQVQNGKYL/FDQINRSLNRYEPCSS QNCSCYHGVIEEDLTPFRGGISRKMAAE VVRRKLGTIHYQITKNRLYRENDCMFPSR CSGVEHFILEVIGRLPDMEMVNVVRDYP QVP*MDGACHPS/SPSRVHRQS/DHDIMY PAWTFWE/WGTCCLANLSYRSWTEGPL QRRSGKVS/TQWFWKKKNSTAYFRGSR TSPERDPLILLSRKNPKLVDAEYTKNQA WKSMDKDLTGKPAAKDVHLVDH
6571	14622	A	7298	22	426 IFSHYFFQKFLRLPFIMFIMHLLGCKVDL FIFQCFHLYVYFGLFYLLKFCYIFKFT NCFLYSFSFTVHLI*VIFPSDIMLYVEV* FKSFF*RYLPLCHVHAFISFLNLSLSS* **LTFICYCPYLLFYH
6572	14623	A	7299	131	353 IFLPEKKLYKLEKWDRAFDNT*NF*J*K/I HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQCGKTFN
6573	14624	A	73	702	1281 AVEMYLVVCGTVAISRVRMSAVCVLRT WSRNAGQLNCFTVFPQCSNVHVL/KGP NYVCFGGYSPFKYSHPHNFVKTINAVC GQLVQFRPFDTEEGIRKVTV/KCYVKEG DTSVQFDNIGK VQSDKASVTIASPYDGV J/RKL*HSLDDIAYVGKPLVNIETALKGT VNLFYQIDYCPFPVIGSQLKVFYFKKK
6574	14625	A	730	24	452 APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSASAIMGN PKVKAHGKVLVTS/LGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNLVTV LAIHFGKEFTPEVQASWQKMTVGVASA LSSRYH
6575	14626	A	7300	131	418 IILTTEKKLYKLEK/CGQGF*QHLKLLNIKN HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQGGKTFNEGSHLIAQESI YT*KKLSKYKD
6576	14627	A	7301	305	326 KIFRSQKKK*IHV/DYIKLNFCAKKNITIS KVKRQPT*EKIFANHISA*G
6577	14628	A	7302	3	416 FLR*IGSHSVTQAGVLWRDFGSLQPLPG LKLFSCLSLSS*DYRRVPPCLACFICFS/ VRRGFAMLARLVLNS*L*VVCPPCHVD LYN*SASQSAIGKGVSHHTWPHKYHLK NLNVFSYQSKSTVNNQLSSQILLN
6578	14629	A	7303	3	474

6579	14630	A	7304	2	1050	REDTKAAVLLHLLHNVVPDQTVVVF ATKHHAELYELLTTQVRSVCAHIYSALD PTARKINLAKFTLGKCSLTJVTDLAARGL DPLLDNVINYSFPAKGKFLHRVGRVA RAGRSGTAYSLVAPDEIPYMQDLHLFLG PLPHRPPTPOGALRVWAGVVGHAGVGV PQSVVDEEDSGLOSTLEASLELRGLARV ADNAQQQYVRSRPAPSSESIRAKKEMDL VGLGLHPLFSSRFEEELQLLDLVNSIKN YRSRATIFEINASSRDLCSQVMRAKRQK DRKAIARFQOQQQGRQEQEQCPVGPAPS RPALEQKQFEKEEEEEAGEKCEDIFSEVG GRKRQKSGPNR
6580	14631	A	7305	3	872	PKSWNGPPHPGHRHSRSHNSFGCSVD EERSRTSKDSSSPVNDHRGRQ*MR*KNP FAASSRSTSSSSSSSPPLWSTAGRTPT TRSGSPALDKVQIYMEHLLATAST/EPA GSAHPVGHFRAE*VPLAL*GRALLGTP VTNNLLGEIAKPSLSQSKRLKAAS/AAKY PHDVVNHLSCDEARNHYGRRQGPHPHP PRTK*KNSGSPTPRSCARCCST*VSPRRT RRAPGDPLVLRP*GSPGPLNTSVDDSSQ KPAASNPGDVQNHPPGGLLVGNCNSEPGA PSAESFAV
6581	14632	A	7306	99	433	KLKVKGGKRYRMLTLIKR*K*IKIQNSC VFLYTSN*ELENK/IFGRYVSFMA*KIKS/ LGILMKDV*NLHSEDIYERLLTKIKDDSN KWTDMQFTRIR*YHKMLILK*PIIY
6582	14633	A	7307	18	146	LHDSNTRSPQFQKSLGFSTGRHRCPV*EG L/RSVTOAGVQWPHHSLQRPPLQDSDP PASACQAARTLCRWY
6583	14634	A	7308	1	240	LVCLSKSECLQPLFYHHLTLKNCQFHLK RIILLFQC*KQALRHGKACPLCHCCSHA ALYMICLAKED*KTFDPQELMYSL
6584	14635	A	7309	2	1790	ANQLQGEVGRFFVVDRCRPAEQYGAGHL STAFHLDSDMLQNPSEF/DTAIL*SLLEA KQKQSGSISAGGEHLCFMGSGREEDM YMNMLVAHFLQKNTYVVSISAGGFMAL QHHLADINVDGPENGYGHWIASTRSRSS SINSVDGESPKWLCKLRWILKHQV
6585	14636	A	731	99	641	APSPDAMGHFTEEDKATITSLWGVGVNE DAGGETLGRLLVVPWTQRFDSFGNLS SASAIMG/NTPKVKAHGKVLTLSDGAI KHLDDLKGTFAQLSELHCDKLHVDPENF KLLGNVLVTVAIHFHGKEFTPEVQASW QKMAEDVTOVASALASTYPLSSLAHDS ELSRDRLLFCKQIKI
6586	14637	A	7310	1	1424	ARILLDNHDYAMEKLRKRVLEYLAVRQ LKNNLKGPILCFVPPGVGKTSVGRSVA KTLGREFHRIALGGVCDQSDIRGHRRTY VGSMPPGRJINGLKTGVGNPVFLLDEV DKLGKSLQGDPAALL*/EVLDPQENHN FTDHYLNVAFDLSQVLFATANTLATIP AALLDRMEIQVPGYTQEEKIEIAHRLHIP KQLEQHGLTPQOIQPOVITF*IIITRYTRE AGVRSRDLNGLPCRAVAVKVA*GQRT EVIPTWVLM*LREKVAENTS*MKMNLNLS /RDTTDLALPPEMILIDFHAKDLGPPM YEMEVSQRLSQPGVAIGLAWTLPGEIIF VEASRLDGEGLTLTGPSSTVMKESAH LAISWLKQKREKSTLTNAFGSFDLLDN TDIHLHFPAGAVTKDGPSCWEVTISLSR PQLFSGRLVRSADVAMTGEITRLGLALPV GGIKDKVLAHRAHRAGLKQVIFR
6587	14638	B	7311	169	379	VSQRLSQFVGAIGLAWTLPGEIMFVEA SRMDGEGQLTLTGQLGDVMKESAH LAI QLGSAATQRSTQLTNX*

6588	14639	A	7312	3	411	IHHFLTCRINKNKINYTLATKTIKYLRINLRN F*SLTKPKLLKDIKVDLNKWNISYSWL R*FKLTNISVLPIIYUNKIP*KINTFFIKLD KLMFKFI*KNKHVKIGRK/TKKKSXVGI LTLSDIKTYKYVSHKTV
6589	14640	A	7313	2	423	SFPLPFPLPCSSPQGPOLLKCAITRFPWPG TCPYPASTQVGEFTLRTRPQLSVGV*EEG CPYPSPADSPMSDEDPGAAPHIHRPLR NR/CSSKGKTAVFAWPAHLASPLQPTG LPGKRNNMLSVPNNTPOQDAWVAPE
6590	14641	A	7314	2	416	ILSTLFOICHCLWSSQLLLTSHCQYHYCC SSKNKNNLAWLLKLFLYNLEA*FIHLA VIFLYLSCLGFTALYEFVVCFLLLVLRSY SVLLFLSF/LFWNFSVTHILELLCPICLLN VLLFMVYFSFVLQFGYFLFLCLO
6591	14642	A	7315	2	411	RQGLTLSHGPEVQWHDLSLQPLPPGLK KIFPPSASRVAGNTDVHHHAWLVFFPFF VVRGFAIVAQAVLQNPGLQAICPPMASP KCWDYRRGPPHFAQE*EHFLRSLPSTGE SYFGEL*HISIRKIKLVHFEETN
6592	14643	A	7316	2	333	TEPALSPRLCSCGTISAHCKLRLPGFMFL SCLSLPSSWDYRRPPHPAGFFVFLSRRT GFHCRLARDGLDLTTS*SARLGFPKCW DYRRDDMPMPGPVSFNRMENMETVD
6593	14644	A	7317	3	232	AASTPRPLRFLPSPTRGLVPN*RPRRRR SSAAVITAPEPAPTSARPTRSNTHRRSLP WSSRPVTEEMQSAAKHNG
6594	14645	A	7318	1	385	IPWSRVG*NHPVKNAHLPKAVSKFTISI KKPPLFFPRMEKTILKFLWSSSSSSSLPV *SSSSSSSSSSSVSSSSSSSSSSSSSSSS SSSSSSSSSSSSSPTHKIKPNTYRQLIFD KANKN
6595	14646	A	7319	2	409	DRKEERLRSRSGAAATMSSGGKGVAE WDPLCLDPDLWDQFDNLNENHSLKFTI SAKERTIELSYTKQLRNLKTCQPKRN WKEKEYIT*NSPSLPVNMKMSDHARQH*V IFFEVLNQITVELQGHVQNKQOE
6596	14647	A	732	154	411	AGOPGPEGIQLG*PQIRDKGDQMGPHPC W*VCGTLTPNTSFVFCVAGRDGAPGV KAHFPAQKPDWDGGFFGP*SAGVGPPPI PR
6597	14648	A	7320	58	501	DPRVRPGTRGPRSGTAGGETTWEFGFVG IVRYLMFLSYELRAAELGEVGAGGPRGA RRPSQETEA*PASRFVRGLGPQLTRPTS PGPRSRPLLGDEPPRRRVGGASFFPTRN GSGAWALWRRPCWECSSRSLRTTKLF LFFGFG

6598	14649	A	7321	381	2378	AASMEHIOGAWKTISNGFGFKDAVDFGGS SCISPTIVQQFGVQRRASDDGKLTDFPFT SNTIRVFLPNKORTVNVNNGMSLHDCI MKALKVRGLQPECCAVFRLHIEHKGKK ARLDWNTDAASLIGEEQVDFLDHVPILT THNFARKTFLKLAFCIDICQKFLNGFR QTCGYKPFHEHCSTKVPTMCVDWSNIRQ LLLFNISTIGDSGVPAIPSLTMRMRRESV SRMPVSSQHRYSPTHAFTNTSPSSSEGS LSQQRSTSTPNVHMVSTLLPDSRMIE DAIRSHSESASPALSSSPNLSPTGWSQ PKTPVPAQREAPVSGTQEKNKIRFRGQ RDSYYWIEIEASEVMLASTRIGSGSFGT VYKKGWHVNVAVKILKVVDTPQEQFQ AFRNEVAVLRKTRHVNILLFMGYMTKD NLAVTQWCEGSSLYKHLHVQETKFQM FQIMDIARQTAQGM DY L HAKNIHHRDMK SNNIFLHIEGLTS*KFGDFGFATVKSRWS GSQQVEQPTGVS L WMAPEVIRMQDNN PFSQSDVYYSYGHRCMELDGRGELPYS SHDNRGRFSIFHGWGRGYASPDLSKL YKINCPKAMKRLVADCVKKVKEERPLF VPQILASIELLQHS L PKINRSASEPSLAHRA AHTEDINACTLTSSPRLAGLPS
6599	14650	A	7322	3	419	EPQWQALMPEKEPARQSRGGALRTDSS EPSRNEVKKTISFIILAKRTYLEIYATQDA *NLCTEKYKIFLKGJKEYRTKWKDILQS WTRHNVKMAKLP/KFYYSFTICKMPLS FYKLILIFMRKYKGCRIANTI*RR
6600	14651	A	7323	3	222	DAWVTSINADKEFEKIQHPLMIKLSK* VYNNMSYIYPLFKIIGYDKSLVNIILNVE KLKAFPLRTGTRER
6601	14652	A	7324	2	395	GRQPRWRLWGQLSSGRRPLEPGWHRP SRGERGHHSFPEPGPCPGQORPQPG*V PVPEP/PPKGGPEPRSSGRKASGPSAQPPP AGD GARERRQSQQLPEEDCMQLNPSFK GIAFNLLAIDICMSKRL
6602	14653	A	7325	63	451	KNQEQESEETLPNLFYKASITLIPKLDTQ K*KKRKEKKRKKKVEN*KPITHRNIYAK ILNKILAHQIQQYIGKIIHHDQVGCIP/GAF DKIQYRCMIR/TLQKMGIEGTHLNIKAIFY IRPTDSIENREK
6603	14654	A	7326	2	137	SKAKINGWDYI*LCWYTA KKAISGVKR QPTWE/EKIFAN*SSDR
6604	14655	A	7327	755	1287	GGWDFAPAEGRERLAPCQIWDPSCLPTH W*PLSGLLSPPPGTQSQPSYSCAKSW CPCPSLSPGSPMN*PSVVRTTGPSPHPEPSA HGSHTSPIVATTERAPERISGGDGLGLSPS GLEGVNREPLFTVPPSSSGSVSLMSTTP PAGHSAA*SPQPGRCSGPAQQAQTSRSV RGP

6605	14656	A	7328	I	2239	MEERKGIHKEIHLRLKVRILSVRMSAIK ESPRLLIGNOEPLKQLKQESKMNRVVF TDYSGCIRLIQSRLSHFFPESGQONPKPY MRKFKTPLMIAEEKYRQOEIEEKQKQE SSYYNIVKQTOSQNHITEVEKEMPLQKT NEEVSLSGIDSECTVQVSPSGOSNARIL GVCSDNQLSTTSPETVAAKRLHHVLAAS EDKDKMKKEVLQSSRDIMQSKSACEIKQ SHOECSTOOTQOKKYLEOLHLPQSKPSP NFKQSEIDVOITFKQYLLTKKTEASTE CSHKQSLAERHYOLPKKEKRVTVOLPTE SIQKNQEDKLKMPYPRKQREPSGSDRGL PGSEKNOGSPMIGRKKEERLITERKHEHL KNKSAPKVYVQKVIDAHLDSQTQNFQQ TQINQTAESKAIEHKKLPQYNSLQEEKC LEVKGQIEQOVFSNTKDQKQETQNKSF SSVKESQRDDGKALNIVEFLRKRRELQ QILSRVKQFAEPNKSGLKTFQILLNTIP GWLISEDKREYA VHIAMENNLEKVKEE THIKTQAEEDMLVSYENIQTAMMSKTKG KPAAGA/ALVSTKTSPPKVSNNVSNEN SEQKEN*IAKEKTVQHQAADDEATVRS HVKTQHEIKLDSNIP.LP.L*KHSPSPPTFI TIESTARRTENPTKNELSQSPKKDSYVEP PPRRFMSQKSEIHRANTSPPSRSEQL VRLKDTTAKLSKGAIPCAATPVVIVEKR SEIIMSPATL
6606	14657	C	7329	110	298	MPWISEGRATRCLRVPSARRDEGLHQ RATANSVYKSRNTWLCWICKPPQSSPK ISEKRF*
6607	14658	A	733	233	353	STAPGSGRQRTVSEEP*PHSTEDGGRGQ WGGTSLQHPAQD
6608	14659	A	7330	127	742	LVRVFPWREDKVVWHQCE/CRPKR*KS KPGLSGPV/APGHSWDSTETTEATGLLI PGPTRRPPTLYHTPCCLSVPRWCRPSSPL LAEGTRRQGLVALPSLIHQIOMGLEVW GLASPPR/PGRWHR*KDKMATQALSVC RA*TCILPSTKTSTRPRPHSTPRGAPTIV QRNSRRVNBKSPESPLPRFGLPVSEPHVA GTRTARDG
6609	14660	A	7331	2	433	FEDIK*VIGKVKKMMSKQRGNNKGIKIK RNQKEIVELKSTVTIKIKNLGGFKNL*Q TDK*ISYF/EDTTVEISQSGKQSSRLEGR EQSLKNLWNTIKLTRVYTVGVSEKEKKE QIV*KISAGNFSNLKJNNININIEAQRTPT
6610	14661	A	7332	1	281	PR/PDRDSEAPGADGAGPRGALVPVGGH GQDPAEDGPGVHAGGARDGGPDPARGA YPPMPSTRGCRKGSANL/PVGFQYVH PFF*FPGVTAKIQRMDQVFTLAVRETE ALIPPEVPTROCPAHEAVGKVHVLCHS WFSICPSLFLISRAQYFYP
6611	14662	A	7333	33	427	GSPAPGLPKGWGRGPGPPGPGKVFVKL PKGGFPGAEIFLGEFFQGRKKGLGPFP VFLKTEEGGTLN/SSFFKGRVLFVKPKA GSSSSSSPNYKPIYLNNTDTKFNNMLA NRI*QCIKEVMQYDRTRG
6612	14663	A	7334	491	731	DRGLCLPTLEVQWAPILGSLQPPPGFKQ FSCLSLPNSWDYRCMPTCPANFVFFCIF **SRFHQVQGAGVQLLTSDDL
6613	14664	A	7335	2	575	AGOVQGLGPPGWAGGEGRGRPPLL*LSL PGRQLPREGLTSVSGHPCW/PDSFGLP GVEKPGNLAGGALIPKLQSQSGPNH KTLPISRGADPAGVVPVCHSTVPGRQ*HS LALHTVPEKFNIYFTCPENSSFNPLPL FRSSLEGIAQGVSSAWGHSAGFTLGLS GDGRORQARRFSLHSCLP CSP

6614	14665	A	7336	19	422	GEKTDKIQHPLMIKTLTNLGIKAYISIIK VIHNRPMACIINGAKVKAFFVRSEQRRC SPSPLLFNIGLKVPVRAIEKEKEMKGI*IG KKEIKLCLSGNDWMTLYLKHPKNSTKKTIR TDTFSKVAGYKNTDAWV
6615	14666	A	7337	33	193	GNLGETLMDIGLGKEFMKTCSAQATKP KI/DWDLN*KSFCTDTNIMHMLVLYL
6616	14667	A	7338	87	713	DIYYNCFGFASRKTDCSTRIPCFTERTSS NS*QNLTALP*IKYDCAITVQACRSRNK WEVRDALNKFSGTNSIFYIKRFYIYIYIF FFFFFPTESHSAQAGMQWRNLGSLPA PPGFTPPFCPSLLKWLGPTRRRP/RQTL ANFPVLVETGATMLARMVLIS*PRDPP /ASASQSAEITGVSHCTRLKKIRFAKHV EFFFESHVE
6617	14668	A	7339	2	105	ENGWCWIAITYGKRKLDSYLSLHARVNS R/WDLDLGTETMEILEENLGEVLLD/ILG /KEFMTKTPKADSTEIKINR*DSYIWKNE NWIPISHYMQELTQEGLSRN
6618	14669	A	734	1017	1880	TLAKWWTTRKEQRSOLSTQASSYHQWR VGACQQAARMRSAPAVITRPGEFVHQ LESASNSRLQPVTSTGHRSAPEAGLLTG CVLMPGCSASQASMEHWSWPCDGFCT YRVLRSCLCNCSPDGPKEHNHGQEP AAVRSQPEGPEGTRAGRPEPGGPHLQ EPKASETHNPGPSREGAAAQGHLLQSG THVRGGKQPSAAGPGRJIARVLSGPPGP ARGRGACDGS*ASPRARSSCRSGGRSRA AAPRRRRGGAGAARACARGCAG*AGS AARGSSGR
6619	14670	A	7340	2	362	STHETFSKIDHMMSTLSLKIKETIVLSIPS SSSSSSSSSHSKSNLQNYTNTWK/LNLLQ NDF**VNNIEIKMET*KFFEMNDNDTSVQS LWDATAKAVLR*NRKDHKLTT*HLKELQ KHEQTQS
6620	14671	A	7341	58	341	IKKFRWGPKEPLKEPPGV/SPDFPIN/FGN PGPVPGKDFKFFPNSSSSSPWGGRAPVVP TTPGG*MGFRP**PAFGVPRGGDGSPPPG APKEGLS
6621	14672	A	7342	2	428	FLRRVSLYCOAGVOWPTSVTEPPPPGFK *F/SLTLPSSWDYRRAPPAKFCIF/M* RLYFTLARMSVSI*PCEPPASASQAGINT GVSHRAGLVLFNLKPVTOLGFDSHHPYH SQISEKDPPISSIFNKKSIHTNLLPIN
6622	14673	A	7343	2	686	PGPPPEVRQHRRVPGTRTGRAAIWPGSFP VGFFLHRAQGRGQSPFFFPQGTGKLGLE WKGCCHAGAQETGSLPIMVHFSGSWE MVSRRGKPS*QLEA*GRGRAPGLQSKAG PRLHQDTPASQCMWVCLNTPSRQRVRG PDTQGYVCVPLPPQFHAPRMNGQLPPG APPPPPPSLVPKYFPSPSSWDRIPLRQ APPCPRH/GPTS/AVTNALPNGRPLSAEA PWL
6623	14674	A	7344	1	603	SGCSRRCPGPWACWTPQKGRGRKRR SGLWGLCCWC/RPHSHRRAGCHHQDGE CDRWGLLPRDHSRLWIFLRNYWHQLGG E*KANAGGSDRVYQFWG/AGPPSAAPSG AAYLQHSITLNRGPSPREDAFTVGVWGT CTMSTRQSPVTPWTASAS*R*EATPVT AVTSMPPAGASPRPPTMSSSASAAATG CTWNGWFVAL

6624	14675	A	7346	19	1562	GRYWRVVDHGRESRVSGPRFRP/SFLAA LPGRHPWPWDAAGGSPAS*GGAA*S ALGLSQRPFGGASDAPDSTAGV* ^T ASS SALIPSRAR*KSGSTLEETKSRPPHSHRS GPVDSLSPRSSHSDSTPVHGPYFERSADPD VGAPPRPSAGQSQLGGSSGSPGNSIPCAF VQQ* ^T LERA* ^T RSHS/SPGSEHRA* ^T SGGLR QGVQGIEVFGLGHPPGGYSCGPQPOEKS PPPAHPLGVEIWCRLGYIGWKSHPHPA LAEDWQPVPPAAMAVGAPGLRRIQRTS RRWGQCPNEAGHAADPRDSGPPGNYQP VSLHILHMDPGTC* ^T PE* ^T QQHPRPL* ^T MAG KWPC* ^T L.DKGQSLGLAGSHOHQYQCW W* ^T QOLQSHSLCRSPPPR* ^T RASAPC* ^T AS WGRSSAGAAGERALGR* ^T HLGTSLPGSAG SLPPCTAEPPADASP* ^T L.SPTVLAEQSEG ASEECHSCPFGSPQSLSGSHRPAESQYH VER/WKQDMGPISVKSPTFRGPTSGSGL LRLARSSL
6625	14676	A	7347	473	792	MLARALDARFLRWCRRDQPLVYHSP* ^T PP GASDAAPDSTAGV* ^T ASSAPAGEKDA NQMEWARR/VPRAPPFGSPGSLIPSRAR * ^T KSGSTLEENKSRPPTQSPFGAG
6626	14677	A	7348	3	411	LCAAVNRALDEGIPLTSALEYATVTL.DQ VRNILRSDTDVSMPLVEERHMLYDTG KILLEKFGGCFLNCVRESENSAQKLMHS WAESCP*SYRDVTLVEGKRASFYKRTQIL VSYTCIVLEGK* ^T DACIQDILSTML
6627	14678	A	7349	2	331	AGGPGLPCVPHLPAGARAWRCQOPFGA ACCPGRRLPLP/GKPSGSSSRQRGQS CRTVSVLPSSPGC/RGQVRPDLGPFA EGCSPWGLRAESCGATGARVCHRCCVV
6628	14679	A	735	1000	1211	VPSTVLDALHILFCLISFLKNKLGWCSGL TPVIPGL,WEAEAGGLLESQEFGRTRLNM AKPCLY* ^T KYKLA
6629	14680	A	7350	1	1062	EAGPGGQAARSQRGSSGLVLPLRLQR CGAFEGHASPTPAGGAPNQLAAPWLL WPCA* ^T PPGLCYAPPPPPQKH/GLLPA PRALPSPRELPGEEPSAHPVHQG/PSCAR TRPASASFKSHSGEFRQGLISAHILQELP GPAGENFQKVFNGAAGPAARHGPPSSRS SCPCTHGTSGNREKPLSTKSKKNKSA WQATTQAGGPGLPCVPHPAKQVLAHGD ASKPPGAAACPGRRLLPL/GKPSGSSRS RQRGQSCRTVSVLPSSPGLPGTKVRPW * ^T GHLASLVWPGPPGKSPGQSTRPVTLK RGVHPLPQVVGQSRFAILVLFGRQCGEG RAGMLGTCCLLAKPEVTV
6630	14681	A	7351	423	826	QKVC/CAHT/CLRGTC* ^T IFTHLCVLRGLCW LLGCEMCM* ^T MCKYVCMCEKCTFVG RCM* ^T VVCAGDREHLAECVRGCVRHW CTRA* ^T VRMCI/CVCT/CLV/CV* ^T VSVC CKSPCVLCKSIVN/CV* ^T A* ^T THWFCVHVC V
6631	14682	A	7352	310	863	STHLSL.PKCWGLQA* ^T ATLAQPNRSLLK YKFIYMSKGHYSVKVEKQPTTEWGRKIF WQTMVSG* ^T GGLSRIYKELLQLSNKKTN A* ^T LKSGAKAQRHFRSRETHMGQQH/Q QRCLIASIREMQIMT/LRGYFTLIRMIIT RKSDNN* ^T CWQCEAIEGTL/IYVWCE MVHGRGKIVWQFLKNQIPL
6632	14683	A	7353	3	357	SISNENFPTKESQGPETFTGEFYQTF/DLS PILLKLFQITD* ^T AGTLPSSFYEISITIPKE* ^T KSQENYSAMYLMNIDTKIFHKLATQI* ^T P YINVIHYDQVGFIPGMQSSFNVIN
6633	14684	A	7354	2	207	GRVDHTHPGLPRFLCPHSPDP/QRM* ^T SH SAVGASGLADPYERIVVS* ^T DGNSSSPNH QGDGASQTSGEQI

6634	14685	A	7355	1	801	QPRDPSSGTHHPDGRGGQAPICPROQG SCSHSPLEHAPCPILPGSWPRWHL/DLL SLLGDPKVGPGIACPPGSPPHAWTGPVA CPGLGQPCCTPILPHPIPCQHPKAPGGH PLCSKLI.TCLPATPAVPSQFGHHIPLFM SGLMGAWPSPEAGPGLVPSWTTAE*GTR HWTHEEEAALGATDAVTS*PGFGRQVP APRMPAWKPCIRGLLHSLPSEKPLQVH RECVQPCGLGLAQTGAQQAQAWGPT DLSPQLPHRHLK
6635	14686	A	7356	3	926	SSGTRHPDGRGGQAPICPROGSCSHSP LEHAPCPNLGPGSWPRWHL/DLLSLGD FKVGGIACPPGSPPHAWTGP/LWPVRAL ASPAAPPIIPHPIPCQHPKAPGGHPLCS KLI.TCLPATPAVPSQQAIIPTCSLQASW EPQLLQKLAFAVPSQLDHVGPRSQPGPD VQVPVCTPKSRPSTCDTITPLPGLNEER ATGHMRKRLPWELLM/PTVPSLW/LWAA GPCT*DACLEMSLHJWSPSQPPREKPLR SAQGVCAAL*RAGTTLPLRLPLRHKA GPTDLSQPLFPQKASKINTROMESVJK
6636	14687	B	7357	73	255	XGSSSEQDQTCNPGPCSSPTGNPEWGLR DTALLDLGKASGLLLERMVMDMPANNK CLIPRKN*
6637	14688	A	7358	1	710	PIEITSQCGGIPRFAPITVGVRSLSPLHHS RGEGLQPPPSQSG*GSPAS/HHSRGEGL QPPPSQSG*GSIQPPPSQSG*GSPASGPGF CWGQ/RP/PLPSCSYSPGALQSSRTAQT QGAHILHR/SGPVHGGPPASPSCLLP/ SLRVLPPGLPAPPATSTVCPPLVCTIPP WVICQPPYLAHQAGLG*LPGLDREGVP FHSNPSLQVCPRLPR/KRPRWSSGLGPH AHNPMPMSMGRSPPRATWLT
6638	14689	A	7359	3	750	GRGAEQGSHLARAAA*VPGSGPAWRPR RGGLGLRPARSALRAGLPQRVAAGVR GPALPQGG/HLQSSRTA/PNPGPCSSPTG EGVPPHSPNP/H/GKSVPGSSGYDPLGP VGLCPHAHSPMPSMGRSPPR/KGRGL*P DAQMQEP/SKWGLSGHSPGPGKQW PAPGEDGGHASQQQMPDLPEKLSPSFT AHLHSLPEA/PVRHEPCLPR/HGPCGRQP HPVCARHRRARRAQAQNAKCAAGKK KKKPVFN
6639	14690	A	736	109	346	PRSLSPHRPAPPPSVSVGFRPRGKRGTQG DKGKCLGYRGQQL*PHGTGPTQRRR ARGCYLQPGAWGLLSPFWCEDV
6640	14691	A	7360	102	380	GKKIPMLYFAEIEQCILKFVKRS*KAK*I LPKNNKAGGLKFPDFKTYKYAAASKHQ VGGLWKELRSTLQAQQTWVPRELST SPSYQTQVO
6641	14692	A	7361	190	375	VIVRVSIISIKIPTTFTEIKTYN/LG/WND NRP*IPKAILSL*NVGDIPLDYIEYHLN MN
6642	14693	A	7362	102	345	GKKIPMLYFAEIEKCILKFVKRS*KAK*I LPKNNRAGGLKFPDFKTYKYAAASKHQ VGGLWKELRSTLQAQQTWVPRELST
6643	14694	A	7363	12	380	DPTVCCLQEWHLTFKDTHRLKVKSWKKI LHANRNQKKAGIAKLISDKIDFKSKTVK RDII*MIRASIHPRRLINSY/WAFNIGNT*I HKILKDLKGGINCNTIIVGDFNTIIR*SRQ KINKHWA
6644	14695	A	7364	3	298	RRS/NSVAQAGVQWRDLSSIQAPPPGFT PFS*LSLSSRDYRCLPPCANFLYF**RL GFTVLARMVLIS*PSDPPTSASESAGITGV SHCAWPISFS

6645	14696	A	7365	82	526	NHSELQLKLRVA*KMCKTADLSLEKDT *IKLEENR*QERIMRLAEVNZIEENKIENN KTGGSSSEKYYKIDNPLTRSIRRK*+*ITS FRNEKGSVTTNPTEIKRTVKEY/YYEKLY ANKFNNLDEMCKFLKHNLPLKTQKINR KSECS
6646	14697	A	7366	146	588	LPQVMAEFERNPNPGEVEGRKAKSMKGQT TGKNQNDNPVIDEIDLEAFKNIQPS/LE ASLGLMGIKPVDWEEIGGLEDKPEVKVT AH/WSLRQKSGHCPV/GARLPTGLLATL GSGSGSGRATeAVSGPAG*KRASIGGSS QRPRRFPPTVP
6647	14698	A	7367	2	1041	CREAAMHALLHSEKNDNPVIDEIDLEAF KNIQPSFSRVSIGLMDIKPVDWEEIGGLE DVKLLKLGQSNESPLTPPWEFVRMGLTQP KGVLLYGPPGCAKTLVRALATSCHCSF VSVSGADLFSPVVGDSKVLQSFQRAR ASTPAILFLDEIDSILGAS/RQPSKTGCDV QERVLVVLINELYGVGLKTIERGRSKSS QQEFQEVFNRSVMILAAATNRDVLDTAL LRPGRLDKIIYIPPPDHKARLSYKRIYK KPCPIGPDVSLLENLAETCFSGADLRNL CTEALLALQENWTRPQLTVKQEHVF*N HLRL*NRSVKVARTWLYMKTLYLRKKDF LTVEGI
6648	14699	A	7368	I	2046	
6649	14700	A	7369	I	4340	MSAFESVPDDEEVDVDAVPENKLTFDNL AEGFRLFKTACDPLHYMDLSMNEDIEKE VKEEIDPDEEESPKKHLDKRKLKEMF DAEYDEGESTYFDDLGEMQKQAQCLG GRSSVSMQAHRRPVVHGGDSCSDPAAM LTTVKAFTTGGVLQRGGLQSSWQAPIF MDVGWEQRNWRINCRKLLWGFAAER SREMPLLVVEVESKGFEIRERTEGRAV GIKSRKSGWCLGCPRRRTENQACIQLSD NSDPRAL
6650	14701	A	737	134	387	PRSLSPHRPAPPPSVSLGFRTRGKRGNGQ RQGEVSWGTGGPQQLWPHGTGPPTQGR RARGCYLQPGASGPFRLPPWECDV*ERG
6651	14702	A	7370	18	731	KEELYGDFENLQTDGVH*GKFGPDSLNE DVQQUEIDPDIEESAKKHLDKRKL KEMFDAEYDEGESTYFDDLGEMQKRS TGKQHTRFPAPRHHVQLNHAEEFEDQD DEARVQYEGFRPGMYVCVEIENVPCEFV *NFDPRYPILGGLGNSEGNVEHVQMRL KKHRWYKIKLKSQDPFISSVGGRRFQTI PLYIYIEDHNGRQLLKYTPQHMHCGAA FVGKIL*Q*LAYCRD
6652	14703	A	7371	97	373	TYESEYFLLLFLFFRRQSLALLPRLECS VKIIAHS*NVKLLDSSDLPDSASRVAGIA GACHQAQLIFIFVEMGSCSLSSFLVGL NQLF
6653	14704	A	7372	I	464	LVFFSWCLFVCLFLVLTESHISIAQAGVQ* RDLSSLQPPPGPNRFSCLSLSSWDYRR A/TPMN*FYCWPAGLKLTSGDPPASAS PSVGITGVSHCAQPRIVSFTSNILKFKNS LSKGCLIEAYFDKTVKATVLEYLAIRNP KPEEHIWGLFY
6654	14705	A	7373	181	652	QNRDVHPAASPFPNSAAQS*RAKTHSIE GPLSVPGPSAA/PARSL*EQNPVKHSL P**LSSQLGSPLEDVGNDDLLSRHKPQSP PSRGPRPEGTRLHPTEPQRLRSSRQFTI TAHVVLPMIPLPTPPAAHACPLPTHAR GTSSKQAEPPPSACS

6655	14706	A	7374	56	480	TRPTEHLKLSSAVSPGFCRWPPSAPKAEL SPA VPRSVAAGAATIIVVRSWSPGEP CPLQTTASVRCAPMHRFPVVGACSPV *ACRAAARLGPREGPPWDQSPQSRAEQ KMLPVFGRASDAFFIDKKGFFCLISCCG
6656	14707	A	7375	265	2253	LSILSHCKRGVGCWLFVTLVAGWDHEQP CAPSTHGRAQPE/GPRVLPGRSRRP/GTQ TLAAPQPEPGECTSQARSGGPVSPHKAG SEAQES*EGSEDPOD*ELQOERTAKNILG KRLPQ*ILYCHSHLGEQPOT*NGERRV *PPEFGLGCG*D/STLLAEEGSGWRGP/T WPA GASTPLEAQPV*AGGCGPPAELPP QPGGAGHPGR/PGGSLGHQAGG*GQ** PHFSGPA*PSA*GPRSRFVSGRSQPAVS GPGWA WHCPASGPPGTSSFEPLWLWP LPLGLPQQORPPRLAARGPOAHGPPRGF FSSPGDRHGPAGGPAVHPARHQR*PAVP AGVTQGPVQLLLPHRAGPLQGPGLGS LAWASCEGPPSLLALPRASWLQ TENW CQWLPPSPVQVSCLGNRQ*RPDFAQGIP LRGAPLGPRLPWRGLARAPAGPWGAP SQQLPWGRHPSGHLSACPLP/GGSVS GPPSGGPA GSPPTGPS/GAPGSA*GPGM AQQGPQEL*GQGPKAGEADSPSPWPCL QGPPLWAPLPRALDAPPAWVYPPRPP ASAGGSPCAAPRPPAASGAPGASG/SA APACSLITLKQDGGGPSISGPAFLQLAW PPGFHPARLHGPSAREARAGSPGPGAGF SAGRGFFPWSLSAGCPVSPA
6657	14708	A	7376	58	412	RPAGCGSTRGTCWARPSAACPQATAAG GACSPWTPAPRSPAGRSWASSWPG*C WAPPSGHGAQQSPSSGQWVWNRWAP AS/WLPSGATPGPRFLALGTIGVPACPRS PSPSEPTQRF
6658	14709	A	7377	1	1548	DKDNSGPTVLHLTARFGHPKVVNVNLLH HGGGDP TAA TDMGALPIHYAAAKGDFP SLRLVVRHYEGVNAOTKNGATPLXYLAC QEGHLEVTOYLVQECGADPHARAHDG MTPLHAAQMGHSPVIVWLVSCTDVS SEQDKDGATATHEAASRGHSKVLWSLL LHGGEISADLWGTALYDAENGELEC CQILVYNGAELEVDRDGYAADLSDF NGHSHCTHCLRTVENLSMEHCVLSDPS VELEAKQPDSCMSSPNTTVSVQFLNFDL SSPTSLSNYDSCSSSHSICKQHPPRGLS /KH*SCRHTELHGHAEPPAAGALGHDWE AHTPTITPLPAPATAPRHTA*PTT*LP SQASCSTTGS*HLHADQEQTPPRGDRGP QEGAE/PPATATTGYGGRTPAASALSAS SPARGTTTGSWAAPARRWSHARA-WRT ARRRNSLGTTCCTAAPTPTPRPGSSCR RRRRRCPRPVRRRRSRLCFSRALALA AGSAAPRPAPAAPSLT
6659	14710	A	7378	2601	4758	
6660	14711	A	7379	1	741	
6661	14712	A	738	33	509	VSVSVGLRPPWELQVWVLCVPRGQAKT RLEPAGRAPEAPLPA LSVLAGGSDSDSRF RQSLSSAAAPGADSLGARTEL RVEPGPS RPRPRPRPRPWTASTADASRAAGAR GRGNESAGSGAEVRESEQVKVRESIGNR* KRKNKTHSKRKKTLQQKG
6662	14713	A	7380	3	5650	
6663	14714	A	7381	1	1131	
6664	14715	A	7382	421	582	LPGAQGMPPRGVQ*PSGLHPOGGSTRTS GLKAMRSPPKNHQVPDSRAGPWAYC

6665	14716	A	7383	3795	5290	WNWTVVHGDGSAQGPWLHLFCHKRQH GGISWPLVQREGRDEHFRNQRLEAPAG REQTAVQKQRFEMFCNSTORLPGQPTTE IQV*RV*RPHKIYABERQFKKEELAEQL KQAEELRQYKVLVHSQERELTQLREKLR EGRDASRSLNQHLQALLTFDKPDKSQGQ DLQEQLAEGCRLAQQLFKLSPENDEDE DEDVQVEAEKVLLESSAPREVQKAEESEK VPEDSLEECATCSNSHSPCDNSQPHKNI NITFEEDKVNSTLVVDRESSHDECQDAV NILPVPGPPTSSATNVMVVSAGPLSSEKA EMNILEINEKLHPQLAEKKQQRNRLKEK CFVTQLACPLANQQNKYKYECKDLIKS MLRNERQFKKEELAEQLKQAEELRMGS GKYLNEHFVFTENDEDEDEDVQVEEAE KVLESSAPREVQKAEESEKVPEDSLEECAT TCSNSHGPCDSNQPHKNINITFEEDKVN ALVVDRESSHDECQDAVNILP
6666	14717	A	7384	125	605	EAEALENQSQCPTG/PQSARFSPPGSTQH PRSQSQCKQRYQDLQEKLLSEATVFA QANELEK*RVILSEPLLQDSKQVQVDL QDLGHETCGQSKNEAEQEETWPPAPYL VPRAPSCRPSQSRGRYPERSORRRP GRPPPPCPRIKVKDGKNKTQG
6667	14718	A	7385	310	327	TVKLL*HVGNISLFPSPP*MLNTQWKG KSFNEWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6668	14719	A	7386	310	327	TVKLL*HVGNISLFPSPP*MLNTQWKG KSFNEWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6669	14720	A	7387	3	642	GKGLFDDDEESDLFMEAPQDRQAGAS VKEESSSSKPGKKIPAGAVSVFLGDDTVF GAASVPSLKEPQPEQPTPRKSPYGPPT GLFFSAPHSKPSKTRKVQSTADIFGDEE GDLFKEKAVASPEATVSTQDENKARAE KKVTLSYSKNLKPSSBTKTQKGLFSDEE DSEDLFSSQASNLKGASLLPGKLPTSVS WFDDEDEEDNLLGVQ
6670	14721	A	7388	1	3096	MVTHQQAARKPNMTSKKPKPMGPKA HGIFSGTRKNNLEIYMDQTRTGIAKTKLS KNNKSGGMLTDFDKLYYKAIVAKIACG GSMYNSDTDEDEETEPSSSGQHIENSIT MNKMKLLKAKMKNMNLSKKHITQVSD EEEDDDGCDLFADSEKEEKDIEDIEINTR PKRSRPTSFADLAARIKGDVAGRVDEE PTTYSYEDDRRGKNQDAYTEGGLSTIKT VNCSSSLFSGEAKLRKTL/KEKKERRTPS DDE
6671	14722	A	7389	1	238	
6672	14723	A	739	2	349	PASSIQQGGRRACLEVTWSCSWNPAT GGLDGRGSRHSREGGGEAPVRVQGPGE MIPAVPKSSWTLHKMQLPGHVCSLGR RGDEKGEAGPEAHAYDPSTLGGRGQRIT *GQEFK

6673	14724	A	7390	I	1374	DDIFATEAIKPSQKTREKEKTESLNFDD NIDIFADLTVPKPEKSKKKVKAISFDD MDDIFSTGIOAKTTKPKSRSAQAAPERF EHKVSNIFFDPLNAGGQLRSPSRCCQA DCCPPDSSLVWVWALVGLGQARAACH TQVSDDEEDDDGCDLFADESEKEEKDIEDI EENTRPKRSRPTSFADELARIKGDVAG RVDEEPTTVSYEDRRGKNQDAYTEGG LSTIKTVNCSSSLVPSGEAKLRKTL/KEKK ERRTPSDDEEDNLFAPPKLTDEDSFPGOS GGGLFSGGKGLFDDDEESDLFTEAPQD RQAGASVKEGKGLGSCVSVCRVPKLSF SLGDGTLRRHQAASVPSLKEPKPEQP TPRKSPYGPPTQLFDDDDCDNDNDFFS TPHSPKSKTKVQSTADIFGDEEGDLFKE KAVASPEATVSQTDENKARAEKKVTL YSQNVKP
6674	14725	A	7391	I	417	MDSSRSVNGFTYQDKLSSKLTSLVLEA VAGEYALVINGHSLARHRYP*LGQYLSS EHFPCGLLYLVLSPDFREDWSQRGLGG AETPRCLLERLALSGFSVLQAHALEADM ELELEFETACACKAVICRCVTPLOKAQV
6675	14726	A	7392	3	700	LVKSYLAQFAARAIISELVSIELAQP LERTHFLFLCLCQLAKLQDREWLTFLQ QSKVNMQKMLPGKRKLTCLFCFFNIISR DFRYLEWTVGQTV*LSCSNDKHYHRS HL*REIYNLTFTI*SRC*VFICVWGSLLC YKDLKYLGDICEALLSGQDHLVK*TIR* CRWLCLFESDQNKDRMLEILEGKGLSFL FPTQLEKDLFEQIKLDPSPQITTKWIKD NI
6676	14727	A	7393	83	3064	GRPRLPPPSLPFFVFRSPFSLPYPRRP DPEEAAAVAAAEFLGEGISLLSPPLTPS INIILLKILRCQAAKVSAIEAGGASRFA SSGGGSGRGAPOHYPKTAGNSEFLGKTP GQNAQKWIPARSTRRDDNSAANSANE KERHDAIFRKVRGILNKLTPEKFDKLCLE LLNVGVESKLLKGVILLIVDKALEEPKY SSLYAQLCLRLAEDAPNFDGPAEEGQPG QKQSTIFRRLIPKLODEFENRTR
6677	14728	A	7394	259	1157	BARWQDVGRQLTKTV*PWGRGWSRVA SDPRLHAYFSYTAATGKAEPRAPTAPC KUARERLGSCLWD*SPPPPGWRPLRYPT PRRAGPAQFGKKVRSASARSTW*VMQ RLAPKKTRKEQSANDHPGGPEGRFTS QLQLKFRALSERISWLEVSRAVTPTSAA VTSPTSTSKPRQKRPTNSQSRSAAKPTPG RRQCQGGRCPTCTRSP*LR*ARGRRHGE ARRLPLREARRLPLREARRLPLRAPRSFR KVPSPGQGRSAPQAGVGAGTGRRRRSM DAWGRARSLAGSAGGVISLGGRR
6678	14729	A	7395	3	432	HIKRVKKNNHMSVGTAKAFDKQHSFIIF FKFRCK*EWGHFFNLKSPS*KVVRANITL SGDAFSLILVIRQGCLLLPLFDKVLKVL DSAVKQEKIIRDI*VGKFEIKLSLFEDDM IVYIGNNK*/SYRKLPEFINEFSKVAG
6679	14730	A	7396	3	504	AASTGGGWVSEFESVAPGSPDTTAAPTC PORTPRSL/LPHFS*TGPCLNISPISERV EPGQNRGKPRHPYPGPNQWPGPA/GGC WSKPGSTPALSDQANTQVDRN/DLQV ASEGEGA*PAELFPKKMKRLGDLGPGF EGKNGLSTEDKNLIPQAWVPALCGYHV L
6680	14731	A	7397	376	419	VRKYSLCFYIL*NLFONIKAEGLPNSFNE ARTILILKOTRHSKENKPYRPSMDRHA EILNKISAN*IR*RMKRIHHGQVRFS*G/ MWGWFNIRKQINV/IHHTHSLKKKNHMI ISINAEKEFDKIRKLPLKLNINYKQNI*LTS* VMVRNS

6681	14732	A	7398	205	1463	VYKKVEASRNEKGWVCGTHAGAFPDEG EGPEEAAFLGAETAAGAP/GARDHPFN HGYAGLLEGPDLQVGSPPHRRQA*VC G*RAPQSDPCPGSGRSMGEAGMPRP/Q GPGGLQPPQEGSVFAVMYSIGGGQAVR RIPVRPOP*GREGVGQGLQPMKPDGEA ASIPTAGSRGRCGPAGRRALVGRSL RP*PPC*PSPR*SPSSGASSPGHPRPAL AHNG*SGWATRGS**DTAPS*HLLVPKQ LAGTCLLCRCPKST**AKLEEIVPGSFHSP RGSYSRGLGAQHQLPSPASVAHPRCPQA PSAASHG*RRPRPACLSLHGQLGMIW*S *APSGVQAQGHITHPPGPDISAERAPAGS* LSQLQGP*DSGGLSGGCAVPPVAAGH PGSGLAWQLPPR*SPAPGSGSPAGRP
6682	14733	A	7399	2	680	
6683	14734	A	74	743	1233	ECGVFSFPFLRQCLVLSPOQAVRWPH LQSLQPDSPGSSRPSHLTLLSSWDLTGT CPPLANRIFVETGF/TCFPLVLNS*G SSDPPTQSVGDCRAGSHHTLAVSF*CF EMGPCSITRAGVR*HDHSSLQP*NPGLK RSPCLSLPSSGDYWSMPPLCLA
6684	14735	A	740	15	239	
6685	14736	A	7400	658	1657	PGILSRNALLTGVDCKVVVPVPPGHHT PQLRLHFHPKTCSGWGEWDHGVVW AGPAPAYHLHRDVQALWTDHALAW P*AMTSEITLWPGHELARSFGRSWSJC PTGLPQGGDDTRGHVWTATCCSADGL RLCRYGDGVRGGLPTVAWP*LTGSCSL RYGSGQQCCYTADGTQLLTADSSGGSTP DRGHDWGAFFRTPPRVPSMSHWLYDV LSFYCYCLWAAPDPKDRAGLGCTPT*P STLTLASAFDHPHFTFDGNTFTFNGRG EYVGMG*NQGGRLPSSGSRAPTATGTE TRGTGLTAVAVQEGNSDVVEVRLANRT GPER
6686	14737	A	7401	1	422	RPKPKNSF*LGEEKANKIPHLMIKTLTK LGIEKTYVNIKVFNRPMACIINGTKVK AFVVRFERQRCSPSPLLFNIGLKVPARAIE KEKEMKGI*IGKKEIKLCLSGND/MTLYL KQPKNSPKTIIRDTFSKVAGYKN
6687	14738	A	7402	247	660	NWSGRRLRMWPSAALSPAVSSPALATS PPKPLVKGRDGKPPAGRPREGPGAW R*GPSPTTLGPAKAGSGQRGRQP*GP GWRPAASQPLSGCPWCPGITELLSPSE TAEQDRGPGSGEDS*TPDFYTPTRP
6688	14739	A	7403	229	1047	HSVQAKADKTGVDDGGSECGPILLSLL QSHPRP*P*PLQKPPEREVWPKDGKLL ASRAGGLVCISLL*EPRVHSCTPGLVPVK AELGLLRAQGLPHSPARLNGTGVGL ATE*TGISEHKLGPLGN*GVMGDVAVR*G LCSEGLCPPSRPWGPMGVCGGLAAKAR PH*QG*VCAPGTHLEGSSVWSLPSQLFP TPGPFAVCSALAPAPITPARTDGTIONHL WPVTRKSALPVQEWGGDSWGTGQAE EGPSVGYPGCP*LPGEGRIPPL
6689	14740	A	7404	595	626	CPMPLVPPDISLINEQTEKEAGDLCPS/A GVPDPSFPLGSESPSHGVSELKTRAKRQR ERHKKGGTEKDRKAERGTPPGPLPLPFL VH*SG*QVQAQALDIISWLKIIIVKSVFP GCPLKSWAAAATPCSPCHPSHSCSPVGV PGRASKFCACPLECP*SPSPSLPSLQPHL CPPPPHASFPDQNGGQGVPLCLPLRGSPG HLCAMSRCLRWNNW

6690	14741	A	7405	1	603	EMESRSVT*AGVQ*QDLSSQ/PLPIHFG FKQFSLPPVSPSKLGITRHTAYLNFVFL VGDGFAMLARLYSNSSSQ/CDPPSSAS QSVGITGVSHCACTCSLCCQTMCFVA SRYF*FWDGNLFCYNLQ/GDVYFIFIHYLE WMRPSYITQARMQWCDLGLSPSPPRF K*FSCSLSPSSWDYTOHAPPLANFVFL AEM
6691	14742	A	7406	211	387	PNLG*LNPPPGKLNFSCLGLP/SKWE*K GQCLPGPVNFGLTKLGVFCGPGWLE IYN
6692	14743	A	7407	3	326	LSGVMLSPGIFGYLFT*CMIDNKATH RYCVYISS*IFLQK/HIHDYLEVRRGSSE TSTIGRLNGQPICFLSTTHETSLYFHS DYSQNKQGFHIEYQGERSNKK
6693	14744	A	7408	1	553	SDPRTEESHKMLTD*RSSYLSLTALPE/P LPKSEAITRNRASRAASLVRLTPSKIDV GFLQKPRLRSCSPSSRCPGSAARST*AA GTACGCCGTSRQR*APGALGLRRPPQS *GRRSSPRPLTHPSSALPPPPPTSPRTR YRG*SRAAPLLSLRLPSGKLFQPTCRPRV SLR*RPSQRVE
6694	14745	A	7409	3	377	KLSPSPILASTLMGPIYHSKVCF/PGMK GQFNQKSIIMTYHINITKNKNDMVISSSS SSSSSSSSSSSSSSSSSSPIEGNYFPITKE/Y EKSIANILDS*KLAFS/LRSGKRGVYL SLLLFN
6695	14746	A	741	2	311	FOLDTGSRASAPML*CSGVIMAHSIKSLQ TPGLMGSFNLSLPSRWYDRHIPPLYANF LIFFIEMGSCYITQGSHPFTNLGLSLSSLA NKIQGNIGSDLVEDTG
6696	14747	A	7410	1	409	NKVFHNNKRSIHQENKILNVHVPNNKD PK*LK/QLTKLTEDTSSIIIVKDFNNPLS/ TLDRISTQNIS*DLENLKNMTMNQLDQINI YRT/LMPSNTKIEHMMGHKISFIKFORIKI IQNTFSENGVTKSNRYLENPKL
6697	14748	A	7411	3	414	KGQDLYGEV*KVLLKVIKQVLNKWKD MSCSNN*HTNFISN*NCIKVFF*LDEL/CSF V**NKC*RIAKEVLSSSQ*CLGGHL/TSPH IRRSYNTTFSQSIWCCYRTKQID*WTRTQ NPEKDLRI*GDLYDLRCCSSRA
6698	14749	A	7412	3	333	LIKEGQIKLSAKNGTPQDRHLFLNSMI LYCVPKLRMLMGQKFSVREKMDISGLQV QDIVKPNATHFITGRKRSLELQTRSSR ATIEKHQNSETFKAFGRLARD
6699	14750	A	7413	3	391	EEDIVNPANDLIKEGQIKRSKNGTPQD RHLFLNSMILYCGPKLRMLMGQKFSVRE NMDISRLQGDIVKPNTHFITGRKRS LELQTRTEEEKDWIQUIPATIGKHQNM GETFKAFGGPLNQGW

6700	14751	A	7414	3	1811	RYIDVLGRRYTAPGLG*LWRHPAQSAVP TAHCGDPVSLAAAGDSPDIGPTGELSG SLKIPNRDSGIDSPSSVAGENPCEEGL AGSPSTVLGAHAEMALDSQVPKVTQOE ADSDVGEEPDSENTPKADKADGLAQH SGPKLLHIAQGLAPLEETYVVKRLHL DQVFCFTRG*RMRGIPPERSSWGHNSLNI FLFPQASHGQFLPELKTRITEWDVNDP RLGDILQKLAPFLKMYGEYVKNFDRV GLVSTWTRQSPFLKDDVVHSIQQEVCGN LTLQHIMLEPVQRVPRYELLKDYDLKRL PQDAPDRKDAERSLELISTAANHSNAJIR KVEKMHKLLLEVYEQLGGEEDIVNPAHE LIKEGOIQKLSAKNGTPQDRHLFLFMSMI LYCVPKLRIMGQKFSVREKMDISGLQV QDIVKPNTAHTFIITGRKRSLELQTRTEEE KKEWIIQIQTIEKHKQNSSETFKAFGGAF SQDEDPSPDMPTSTSPVEVPVITEGSS GAAGLEPKRLSSKTRRDKEKQCKSCGE TFNSTKRRHHCKLCAVSPRGQQQGE ATLSSALTEQLSPHQHTSHAHQCTEG LPDQGSWI
6701	14752	A	7415	189	392	KQKWEKKQLKKSPPGAAAHCTNPSTL GG*GGRITRSNGRDYPGQHSPTSLT*N GKNLGRGMVGG
6702	14753	A	7416	2	325	SHAGCLIRFWKSMPTIHSLLPTPTPLGT CEASFLEPRASPVPQCSMALRRYRLDM GQSFVWGLPSSHPDPSPRGV/PVGHV PGQEGPGGKAPDSS*H*DPTGG
6703	14754	A	7417	9	1430	NDNASFGEVYHYPPVPGSCQCHDES GFPPGSPCGTWPTPAKPGREGSGGWL LGQASPVTIAPCPACIF*VPCTGEGQG WLGAPGKDASH/GA*KM*GVKGRLCVG APEGAG/PSQGI*SFTEP**AHPONGLYE DEHKNSRWGHPHP*QWNWDRTS*CNJ PSRP*VPHPVVRCAGLEAPAGPHRTRT PSQGVILFLQKRIKQACEPYALFTPLSP HSSPASARPGSPD*MCRAPEDESCPEMA LLPGMGPPGSGERCSRAPSPGAQVTTGGV PGPFTWGSGESRCFRAPSPGASGEEAKC SRSPFTGSGESRCGAPSPGAQVRAV PRPITWGSGESRCRPPSPGAQVRTGVV GPFTWGSGESRCGPHLHLPFSYVPLA PERKGPQRSQEKGHKRGGSQAAPKPS R/PQESPSPLTPSGGPGS/GRNGA*GVSEG *SAPGSGEEEDVFGC*GPPALGPEG
6704	14755	A	7418	1	389	HLTFCHHHYDDRVRGLYKGQKECPGPR VYIRHIGEGRHLVYLQFKDHPGHIOPLE PQVKYVGNMHSNKAFGR*LMLQSEFL CEEIRNKNQRIVQLQIDTRIHLPSMNPDC YQGGVIAKGPKNPWL
6705	14756	A	7419	31	392	KHNRASTPPS*KKSSSPVTTKGRYTKTP HTDVPOG*QPPYKQRGGTSSSPSEFISY SIVLSSSR/PHPGPTSPRLHPSRSHLSEV PPLTQVPPLQGPVPHDPDTPSWLYLSPSS YLY
6706	14757	C	742	398	574	
6707	14758	A	7420	2	704	TDSKCPFLVHQAHAM*KERHFLTANG SCIKFHQDINRLSSVFL*ELVVRHCRG HQKRVDEIAKGNRLADQRAKSAVRRPQ GPKTLEAPLIWEGYIREIKPQYS/DRDR MGHLSRYTFQPSGWLQSEDCKVRLPASS QWKILKILH*APHLGKHKTSVHPKJVLRR KSTKNQIGC*YS*NPKNNPNR*LLPH HNQRMGSYSGEDWQIDFTIMPKINGIOC LLEWVHTFI

6708	14759	A	7421	2	705	FSRDEVSPSWPGWSQTPD/LRDT/CLGL PKC*DYRCGPHLAESKFYFPI*KL YHS MLCL*ADSKS*KPMSLFLFLFLFLTON FALVAQAGV/QWHGFGSLQPLPPGKFRFS CLSLSSWDYRCLPPRLA*/FFVFLVQMFG F/TML.VRL.VSNS*AO/CDPHALASQS VGT IGISHCSWPNV/IYITITM*IFSPSPILLIR HALFFLFFFTETESKVA*AGQWHLNLS LQPPRL
6709	14760	A	7422	33	775	VMGPAPAGEQLRGATGEPEVMEPALEG TGKEGKKAASSRKRRLAEPAPKGLLOPVK LSRAELYKEPTNEELNRLRETEILFHS/SL LRLQVEELLKEVRLSEKKKDRIDAF/LRE VNQRVVRVPSVPETELTDQAWLPAQVR VPLPKCMM*PACRFVFLAPKPRITVCEA SYLSGQPSIRPDINVDVALTMPREILQDK DGLNQRYFRKRALYLAHLAHLAQLDFL FGSVCFSTYNGCHLKPSSLRLRQ
6710	14761	A	7423	74	576	LCWOPRWWSP/TLRANGHOK*/SGVAILI SDKTNFKATAVERDKEGHYIMLKGLVQ QENITILNLYAPNTGTLTFIKRLIDLRENI DSNITIVGDFSTPLTALDRPPKQVNET MDLNYTLEQMDLIDITYRTFHTTAEYTF YSTAHGTFKSIDIRHIGKISLNTFK
6711	14762	B	7424	158	346	XLSCGEVVPQIPVKSQGGPHGAGVLGLHL EGFISREKRGAHFPAHLRSFEADAFQDL LATQGX*
6712	14763	A	7425	1	1768	FFFVTVMYFTTIFFKQTKTNLKSASPTP QNH/PGSSLAQ/PLSHPPDGPLSHNPGLA LWDQPSLPAPPRPSSQGGALCGEWGQ/ PGPKAGPLTSS/GDWGPVSEVGDQHA SSGF/*P*GWGTFKH*QPASLGTGRCSSTS NTSAENLTCLSLPGSPGKTAPLPQAQA GAGQPLPKGCAAVKAEVGIPAPPPPGG QDPHPSPAFLG/SPGACGLRSTPCALPQA LPQARP/CPGRWFFWPL/FPFQTGGAPDHP ISLDPGDISFNWALQEQGKRTSARA/RGA YLLCPTAP/GKQGGREPTPELKWRESQ DNHP*RGAAPIPDV*PHCGCPQSQEGRS PPASKLFQGESRPVFATWVCSRAKGTQK MAG*H*WGEQTLVPRHTALQHQAGSP QPASTGPGDV*RDRVIEKRKNQAGHPW HSGLSGSPSKNRGPGPSLPGGQSGAGP NCALAQEPGGGF/TRCTPTQEQKANP*L STLPVTGPLPAGSSPPAHGGFTTPAPAT* LPAPPSH**HFGVCRSPVP/PSCRQALSP TGAQGGP*TTAQPSHPRP*MPSPGGQPG WCHM*AQAKPGAKASPAQCTFSQPPPP GRR
6713	14764	A	7426	36	620	QHLKLLNKNHNTGEKS*KCKECDKAFK WLSHFIIKIVHTEENFYKCEQOGKTNE CSHLIAQESIYT*KKMYKYDKDEKAINIY SHL/NHWRVHT**KEYKCNQCKIFQ/INI NL*SEGIYFEDEHYKCEBGCTFICITDFI VHILY*KKTLKCCSNFVQHGGIYIEEKL KFNKP*KTLFQKVQLRHHQSSY
6714	14765	A	7427	3	276	PKKSTELLEVINSNKSFTRKANVQKSI TFLQYNSNEQVKFKM*NTLPIYKMKYLG ISVTKHMQDPYEEKYKTLMKDNKEEQN K*RDIPCL
6715	14766	A	7428	125	456	LADWAHRAPASPORNGADYAVYINTAQ EFDGSDSGARPDEAVSWGKIRVDAQPV K/VKRWLGA*GLWDDECGSHLPRFP TQVYAAASLVFFLLEAETFAQKMDAFT HEK

6716	14767	A	7429	I	571	LSGKEVRENGIHRUGNLLAVPNENYCKF EDWLMPILDQMVMEQNKRGFGLKXW TPSKMIARLGKEINNPESVYYWAQKNHI VPFSPALTDGSLGDMIFFHSYKNPGLVL DIVEAERG/ADYAVYINTAQEFDGSDS/G ARPD EA/VPPWKGIRVDAQPVKYANAS LVFP LLAETFAQKMDAFMHEKNED
6717	14768	A	743	3	862	RNERHAYDKGTWKTRAIMTVQ*SGET NVDRAYNLLYQTLDDWTDVSVTC*ENKEI AAGORNESHSDNWKYQVWEWLQHL DTNOLDANCIPFEDFINGEILCSMSLQ FTRAAGTAGQLLYSNLQHLKWNHGHT ISKSCKETRIHLPFFFLPGHILATCRV SKRLQPKLQCAVHSFVTPGIFLYDEIGYR ARDLREPQGVAAALPLSSDGNRRRPF LPKLKAQRRVRFPNKGKRGSGSPFHS AFLNWOHKNVWMVKKLSYLGLPY YPGSGGAI
6718	14769	A	7430	I	311	RRVSSSESRWRSLESRGSLIEQGRMER CQRFRENSCVAPRHCKGGGKGLQALE* VPAQGLGEPGAQLGDPGAHGEATVPEV QGE/PAALLPGTAKVPGEGSPGIPPRHC RGTGEEGSPGFTQGRETSKAQQTGCLL SCRGCLCLSVSODS
6719	14770	A	7431	250	503	DDEKSKIEEYVWVGSDDEEDNGDKKK KTNKIKEK/YIDWEELNKIKNWIINSDDI ITQEEYREFYKSFSD*EDHLAVKHFSVE
6720	14771	A	7432	3	540	KRRGSFKMAELYLQDDESSAKALVSLK EGSLNTWNEKYSLQKTPVWKGGRNTS SAVEMPRFNSKRSRLFSDDDRQINTRSP KRNRQVAMVPQKFTATMSTPDKKASQK IGFRLRNLLKLS*RH*WGILAKWFSYNI DKPLFEGDNDFCVCLKESFNLKTRKLT RVEWKGIRRLMG
6721	14772	A	7433	3	322	FFLRWTL/DTVTRGGIWCNLGSPQP/P PRFKRFCSLSLSSWDYRRPPPCANFLY F**RRGFTMLARLVLPN*PRDPASASQS AGITGVGHRAWPMPIFENRFDL
6722	14773	A	7434	22	475	PRMISCRPTRPPTRP*SHSAPFRHLLVHP VKAKYFLSAVMTTHILASASHPEPFAA* SATTPAAPQPMWTSDDLQPPSTCLPLGTS PLPSRPLLPVSSCS/SFPDPTQMPPLSTVP GLPFL*PHSSALSLPLL*LPHGALSPSSV PEPT
6723	14774	A	7435	14	362	LFYQTESNNV*KTRHKMNK*TEDFNNTI EQDLFTVTHSLHSTVEYAILLTHATIFI DHLIS*KTHLSK/CSADGITQIPNYDTIK QEVKNTNMSKNK*KLLNNKSNLTLFKR L
6724	14775	A	7436	1	440	SPPPKNFYFSLRPLIFLRGVGKPLPPKK RVFSKNPPEVFKSPPLKKNKFSPPPVNL GPKDLKG/PPFSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSPDRERPTTIN*PTRP
6725	14776	A	7437	8	487	DEVSLVAQAGVQWHNLGSLQPLPGFK RSSYLSLLSSWDYRCPPCLANFIFPSRD GGFTMLARLVLS*PQ/CDLPASASQSV VITGVSHCARAPSF*MSASGVTCVGV ELFGMSHPVAEANDHLSGALVPSALFS HFMPGLLPTMFCPLRGCE
6726	14777	A	7438	1	445	IDCWHKCDQNSMGKDNLFN*SYWDYWI SI**KKRTSNLISPIHKIES/RWINLVNSK ALFRRKQRKTLHDCGLGNSFVEETOKAL TN/WDIHLQ/SFCSSKYTTKIKLR*ATD WGKIPIFLAKNNNDKICEHTHKKRYM FGQMHVFWWA

6727	14778	A	7439	131	763	PGISADSRGQOKLS*WGFSPHQPPGPKLG SAPGQVLCGLVGPAAKHALRPSFHS PSAGNLGCFAAWASSLNSNOGSPSSKG HIPKDRGEPRGTVPSLRKATATGRKAER LSDEGRSSVHG*AGIPGHEGNAKENRDR HPWQLPGIASAAVVIASGRGALPPGGQA GPKLAPPFSSLSVPGGARWG*ABGAPS KQRGKVTGEPGRQC
6728	14779	A	744	15	404	RNFRVDDLVSPPCCGILWFFTGQASCSW RPLATLPSRQKPGSSPGKAGCWPA/VDL GLVPHGVSGVSIASSTPOGQAVCSFV AAPSTLLRLTHLLGAASLQCGHQHLL HHLLGMDLYVAASPSHRFW
6729	14780	A	7440	47	265	
6730	14781	A	7441	1	330	HHHLAPFSSLPFNIVL/EEVLARPINKEAK *KAP*LERKEVKLPFAEEIQEMIWYIDN SKESTKELLELINKFIKATRYRFHIQ*LVF LYTCNNLK*KLKYLINLTKV
6731	14782	A	7442	3	423	NNALLNPNWVKGAIPKEVVRPYLD/TREN KVTA*QNLWDALKK*/CSGKLIALKE*C QINNLSFPLKPEK*EQIKSPVNIKNVIFK KLKIKKGLKV*KK*RKISETKSWFLEKVI KIY*SQGRHARKKNEKSGITRDSRTG
6732	14783	A	7443	1	689	YIYIYSYINIQVFLF*EHLINKLFSVYQ LMLKH*KKRTNTLTLIRIM*AFLFY QIICISYVIAAVLFCI*IFF*HLCLLVLF MYFNLRFIPLRLSDITSFHYMPLFRFL SC*SKQEHLLHNOQGIYFINLLVWKHFFL DVIFTLVYFVFG/FALILYDFLMSVC*TF YLSLFISR/ACLLFYPHI*LIFTWAYISRLI SFHTF*GIYIFASEVFIIF
6733	14784	A	7444	3	545	TMLLFTLQNRCTSSHCPMAPALCPGK LTVGTGSMGPRSPWPPSSANA*PVDKP SGQEG*GQCTAAAPPCRVAVLSKVRAP GDGLSCGGSCPPG/RQGRGVPCPAAGER REGREDLKPRE*IGSCIKNLGISAQ*D* KNSQDKSKKNPIGD/RTSLAVGTVPQSTR PRVPLGYHYCY
6734	14785	A	7445	243	768	NLPNK*QDEGRGGGAEPWPWG/SLPPR DVEAPSPRLGAPAWPPAGRWPPREG AWLG*VLCFRKRSLPLVLGAGA*ASVG GGCVGRCLSGAWPPPGVGDKPSPYCSE RPAASF/PRTCVFPNAEGGERAPRDSR GEGSLPCCRGEERGQGGKLTTRNRFVY QEQRADFTS
6735	14786	A	7446	596	1335	LEQITFSVATAMDSRFPDFQDLDEPERA CHDAAGTLEVDFFLFLNFGTVDLAQRKE TTTEQALP*ALLIGIRRFELSRFSVQTED APSKVNYVLCLLAECSGPDYLPACAP SAYR/RWYLDFCPR*FLPPY*YRRHFPQW TTVTQEAFSHHDAFTSTPVLFPDPAQ PFTVKSSESSQIAKAALSQORPSLIYERL HFFS*SLQRHTIDLDQGI*ILMLSEERQH LFESSIGFHPITISKD
6736	14787	A	7447	199	450	ERSFSKMP*NPFGGGEPP*PTLGIPSSP PHLLGPKFLEKIFGLPLGPGKIFP/GFA FGPNLGS GGEPGGINPRSLPLGER
6737	14788	A	7448	154	695	GLLSNLLISIFHPKKSAPKYQHKMHSQS FIIFYCMTNHPNQLNKP/FNELQ/K*HEL KLE*SKILLYNQNKPSVYREIMQLRAQL KKIIDSVKHKRTWQGLKQGV/YWGFYV NVIGKSPFYFWDK*YFIFIDWAKNITLRIN MGPERPTVFLPNFIYSQSTKLALNWWINI MGQFISYSVSA
6738	14789	A	7449	203	443	FFVKGPKNTHW/RKDSIVNKWC*KN*IST CRRMLDTCLSLYTKIK*KLRIPIESGTE PR
6739	14790	A	745	1001	1459	

6740	14791	A	7450	8	312	QTLALSPGLGVQWRDLGSPQALPPGFMP FLLP*ASQISRDYRRPAN/LMPGNFFIQ AETGFSTVLA PGWC/DLPDLVIHSASASP SAGITGVSHRCPARTF
6741	14792	A	7451	1	2554	MKVWLLGLLLVHEALEDDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKPKMKDR DSANSAPKTSQIMMQVLDKGRQKFAA TLLSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSOQ KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVAVA ASRCGHLTFAWQNYISLERLSVYMCRF VTWVNCMSRGFGVDYFIQV/LKLIQVLP PDSVHPRSHKILLSLRSELAITTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLTSLWLGKGPILPKYVAVS VQLSRAGACFSDVTHREVLMSECTYMVV GGDFL/LGOSLVQVWFVFWVSRGQVTLI FSSESREYLKEEEELFLCKGPGYAGQRVK KNDDPSSVKQNERYGQ/LTLVNSTADT GEFSCWVQLCSGYICRKDEAKTGSTYIFF TESGGRISVLVNLVTAQELLAHEPDD VSRNSAPNLKHHILTVTQRRQVQKKA NYLFQEHCGENTRKHVIRIGVSLAKJSL CKYCNIPSQNDPEKQRIQCTMPKKKSHQ HQQKYPQKPSPEFLACPKDRIEKGELFVP SPSYFDVYVYLPDRQAVVFC/PDRAVG QSHAPGIPSGQDPSQWNGHCL*HEAGL CVSATSFRAPGCGLLQGGGRQISDLRQ VPAALRGFGPNSSKPAFCSSCHMQAFW* VLAALSRRPQFPPLPSPLSLGHQVVG IPSGPPSTILASSNKVKSDDISVLCVTL GEFVVEFTWIFPGQKPPSRVITGLWAG TWWCLYRVL
6742	14793	B	7452	1	2586	MKVWLLGLLLVHEALEDDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKPKMKDR DSANSAPKTSQIMMQVLDKGRQKFAA TLLSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGLLREGQAGPMGSOQ KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVAVA ASRCGHLTFAWQNYISLERLSVYMCRF VTWVNCMSRGFGVDYFIQV/LKLIQVLP PDSVHPRSHKILLSLRSELAITTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLTSLWLGKESREYLKEEEE LFLCKGPGYAGQRVKKNDDPSSVKQNE RYGQ/LTLVNSTADTGEFSCWVQLCSG YICRKDEAKTGSTYIFFTESGGRISVLV NLVTAQELLAHEPDDVSRNAPNLKHH LTVTQRRQVQKKAKNYLFQEHCGENT RKHVIRIGVSLAKJSLCKYCNIPSQNDPE KQRIQCTMPKKKSHQHQQKYPQKPSPEF LACPKDRIEKGELFVPSYFDVYVYLPD RQAVVPCRVTVLSAKVTLHREPAKEIP ANGTDIVYDMKRGFVYLQPHSEHQGVV YCRAEAGGRSQISVKYQLLYVAGWMFS FLVMTLTENPSSFPQNPNSVHSGAASVL DQSQQFIQACFLFLSHAGSMVSAAL SRRPQFPPLPSPLSLGHQVVRGIPSGPP STTLASSNKVKSDDISVLCVTLGEFV EVEFTWIFPGQKDERPVITQDTRLRIHQ LGHTTRISQSVITVEFDITDAGYICTAQ NLQGGITVATTVEFS*
6743	14794	B	7453	520	600	MIDCVFGAELAESLFGILGILFTLL*

6744	14795	A	7454	78	624	TNKSQSGOGLCVAGPRACPOSSPVQOKR NVPLSLSAPFSGS*GL*PCGGVLGATG GAELMGLLRWSWCPFGVCTVSLGQQVGS LSLESEPPASSLNNSRGLLREGQAASVGG QPKVTSPTMARVL*VEPPVCETWAGHFS WQMGPLPRG/VWAGPPQTPPCGVQTALA ANGKQPVIRKPGSVT
6745	14796	A	7455	3	369	ISQPPKNLGPPEKTYKRPSSSSSKKEFFP FFPGESKGGVLSPRKGSRRVKPFSAPT PKKGGPRSSSSRGKSSSRNFKKGGGFP Q*PRRFFPGKGPFRPPKKAQ/HYRGK PPGPGPK
6746	14797	A	7456	2	648	QTLPPKGRLPQEDGLGIRRPKSRPALPWL CQGPAAACPLPASLQVVPGHQMDPQLVP PFLSPARPLLEL*EGRQKGRWGRPSQAG GQEKQLSSSSASPTAERARPPRACTY*G CLALP*VTGGVGPMASTLPVITGMDQD SRGNR*EGPGVR*/DWGCSPRER*EGGTG VALEERGLLQOREKTSGVGVSEPGFVF QRPALPGPWWCPRIHLKRLA
6747	14798	C	7457	89	376	
6748	14799	A	7458	3	864	MNFSPLFSPNFGDFSQNIPTSEQQQFLA QNSSGKTEYMAFPKPFESSSSGAEKPRN KKLPEEEVESSRTPWLYEQBEVEKPFIF TGFSVSVEKSTSSNRKNQLDNGRRRQF DEESLESFSSMPDPVDPITVTIKTRKA SAQASLASKDKTPKSKKKNYSYSSWK SRVKNIRYESASMSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIKCNRST EISSETGSDFSMFEALRDITYSEVATLISQ NESRPHFLJELFHQLLNTDYLRLRAL
6749	14800	A	7459	2	743	KASQAASLASKDKTPKSKKKNRSTOLK SRVKNIRYESASMSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIKCNRST EISSAHARRILQOSNRNACNEAPETGSD SMFEALRDITYSEVATLISQNESRPHFLM ELFHQLLNTDYLRLRALYALQDIVS RHISESHEKGENVKSNSGTWIASNELT PSESLATTDDVFIQEK*KYASQKHLHINV HSIFSHDSLKLKHQEING
6750	14801	A	746	3	357	
6751	14802	A	7460	1	336	IVFTPEKFGPKETLKKGAPSSSSSKQKF PFFGPGGKQKGGFGSLQTLPPS/RSSPFP QPPQEKGFQGRSSSSG*CIFFKKKGFP WAGGVQNPKNPKGFGPPGLPWG
6752	14803	A	7461	1	3010	YRIPGGGTWQSARPRVGSRRVVDGEGA RRGLCSPSSRRWRPQPQHPGPRAPA LSCAAAAPARRPRGHAEERRDGLGSAE EEESWYDQDLEQDLHLAAELGKLTLE RNKELEGLQQMYSTNEEQVQIEIYLT QLDTLRHVNEQHAKVYEQDLTDARLE LTNHLRLVLESKAAQKIHGLTETIERLQA QVEELQAQVEQLRGLEQLRVLEKRRERR RTIHTFPCLEKLTSPRCKDAFRLHSSSLE LPA
6753	14804	A	7462	2	190	SSNKKKPPNKNHIEPDSFKTEFYQTF/INT P*IPILKLFQKTELQELPNSCFVSITNSS IRR
6754	14805	A	7464	359	1095	PKGNGNLCWGSALLNARMRAGNKSPP LPRLPPGATKSLPQALQFQPLLAEPDSA AGLGTGGTPRLTEVGGALS**RSGSGFP ENQKGGPDPASGYLDLMHTPPFSQDPIS PASHMPPISWSLTFSEVDRSRQKTTTPGR WGSRCGLPHTCSILVGGVTRREGVEMLP MGTCGKCAPFAPHLASAASSNVLTAGDP APGAGRLGSAQAQAALGQGGRRSQAP PRRALQRPAAWVETTSQWRSAG

6755	14806	A	7465	16	405	VGAIQRAPPPAPSCARCLHTPDIRATLTQ TPGGTLTPQOEKDEHGHGDRAGHSAGVS VWVLDPGTCSRRRRWFSPLYLEILRSS GECRG*SPASPSLSHHHTAHVTPKAFIHL LCARCKEDSGITQGGAF
6756	14807	A	7466	16	255	ARPSPCSWFSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLAKMLTYFKNS TYLRLFMRYRCKPVKSKKKRN
6757	14808	B	7467	1	1026	MRARRLPWALTVAELGWDTOGGDQT SPGGNDRMSMEAECESTTVSPSLSCSPTG CGQTRREEVSARATPPPSLGASLLQTLTPD THCTGVSAATIMSLVFLVLLWPFSSST LAKHKRIHTGEKPYKCECGKAFSRSSST LAKHKRIHTGEKPYKCECGKAFQRSST LTKHKIHTTEKPYKCECDKAFKRLSTL AKHKIHTHAGFKLYKCECGKAFNRSSNL TIHKFIHTGEKPYKCECGKAFNWSSSLT KHKRIHTREKPPKCKEKGKAFIWSSTLTR HKRIHTGEKPYKCECGKAFSRSSSTLT HKTIHTGEKPYKCKEKGKLLSTPQPLNI K*
6758	14809	A	7468	1255	2710	ARPSPCSWFSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLANVLTQCAR LETDPDFQLKNGVAQEPVHLDSPAIIHQ FLITGDTQGPLPLPLGLVHRMDPAEQAP WS*QGPALFNSPTPTESLPAPWLSMAP VSWITPGETTSRRCRGVLRGVFTLLRRE GDHEFLVPEAQEDVEATFPVHQPNYS CSYRTDGEALSEPSATVTIEELAAPPPP VLSTMESPPRSCTLGKNVLT/CVAPLSG SGISLRRGGERAAGNPGGTSPIRIFFH LNAVALGDGGHYTCRYRLHDNQNQWS GDSAPVELILSDETLPAPEFSPEPESGRAL RLRCLAPLEGARFALVREDRGRRVHRF QSPAGTEALFELHNISVADSANYSCVYV DLKPPFGGSAPELERLHVDGELAGHQ GRARVQCPSPGPVFLPFPWASDGGALGL GSAPIAPGGEQAIGGRGSGDAWNFGLF PTDASP
6759	14810	A	7469	3	1312	GEAGRGSGTGLGAGQGCAATSGLAARS SWGHRVGHQLGSRGPTTRSAQ*GAAA ADLQAGRHSDDHNPPT*AA*G*NLPAE E*GGPRAGAPAHASCTDPSAGEPGTGA GAARRWHQPLGCSFSGV*PQASPGSSPR AQTQSPGAAQEHHEPRE*AAQAGERPA GGSEVVGAGASGGAAGTGACGNPGPA AAGSPRGQGSRAATGHTGCGAVQLPR PAPSGRG*KCPAAAAAQETEG*VRPTAA TLRLAGSGARRWCRPSASHHGPPDIPGG DSGGHPGSAQP*AAAGPGCPQLQPEAG GSEPQA*RATGCLQGPGRCILGDPPEAP GLLPQHPGRAGTGAGTAAAGPHGDG*RA TF*ATGVRGPAP/EAGTSTKS*G*GSWQV QGTGPKWGLCLQPSPSIQGPAATRPSPK GRAEQSSASTEPSHPAPRKT
6760	14811	A	747	461	791	ESLQTGLTFTKSDMDLLPHIGPCR*DG AVSGAPSSNFPSTVAGSTRILAKERGIDH HLRKQPRWEVHGAVRRAVIRPFIFHLR KEAACCLFPPTLLPSRQQTLLPSK

6761	14812	A	7470	1	1987	MWEPGCSQDGTGVFGCRDR*GG*GAA GCAGRPSGDRGQWPHACGGGGRGHPS TSTGAPAGHGEEAASEQRLSGGRLRPP GPH*AHRHVGPAGRGLC*LGRREPQHR VPSRSAPAPGRLPALPFLDEDKG*AEPR EAAAPRRPRAAGHSPGHVSHCGEAPGGL DHLHLPO*PAGMGEHSDGRSGQC*PSR HTSP*TRLQSPDPDTHPGSSLPAPRAL SCWARV*ASLGDQPAFLGGHTGPPDAS GEPOHKH*PS/GPLSSSPFPAIQQRQRT ESLPGTC*GMEWPTAALG*RGPRPVAT PGTPGGAPTSIGFP*GCQAQKPEAGLVVA NGTMCCPAKHTWRSGBKIPITLISILPLLL LHGGAVSLGSPPOGSALRPAPASLGPCV TDKSIPLAQNTKYSPLD*ET**HLPECS RGWGSPLLVLHPLLGHLVSAHPLPGYK ACPRPLNLLGRFGA/QGPRGSLSRSSRG */PGPAPSA LGVSGSPSHPPNGLYAEAH RMGFLPDSKSKNGLJSKCKLTFHPQTSK PPAPIS*SKTSGGRKNRLPGLHSQQSFG RMPPGMP*APSVYLLPLLSHPLRLTAG KPSSLQPRSPSLVSSHTRAQQLSLSV*G QPCVPGHITSTRQGLPPLHSILPAELPQSS ANRGIKASLRIRK
6762	14813	A	7471	2	353	DRKEERLRSRSGAAATRSSGGKGVAE WDPLPCLDPFLWQDFNKLKNHLEKFIH SAKERTIEILSYTKQLRNLLKTQCPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V ITLGSIKLSLRS
6763	14814	A	7472	2	390	PLDPQRVKIEDKYNKSRS*KN/LGLEDL GTYSVIVTDADEDISASHTLTTEELEKLK KLSHEIKNP*VIKLSGWNIDILERGEVRL WLEVQKLSPAELHLIFNNKEIFSSPNRK INFDREKGLVEVIH
6764	14815	A	7473	3	223	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMYSIYPLFKIKGIYDKSLVINILNVE KLKAFFLRTOTRER
6765	14816	A	7474	3	1033	CPLPFSL*YSTCGEKQPMWSRASAASP GQSAPSSA VGCWKAACKQYVWGTPSY SYTNRFPRRTPHSPGVWKAACISRAG*PA RKNSLICLAGKTGALKDTSKAPVFP CHRHSDPGGGFHCAELGTGNSPLGRLL KGLP*PAAVPCPPGAPHLPQRRPAGRP *FPPAQSSPPQSVWSRSRCTRMPGTPG RWGPAAGSWPATSLASGCPSEWECGAT NP*APRLSTALGSCCSPPEGKRNPPTPA TRP*CV*AG*APPPGHSRGNGLEKSS PASCGR*QSGAGPSRLDFPSSPRLHSVP PGFRFTSHPPQVQASSVSEKGEKPLRSYD PRR
6766	14817	A	7475	63	389	KNQEQESEETLNLFFYKASITLIPKLDTS SSSSVSSSSSSSSP*KPITHRNPSSSSSS SSHQIQQYIGKIIHHDQVGCPEHLIKFNI AA**EPSKNGDRRNT
6767	14818	A	7476	3	335	HASGKDRHTDQRNRIKNPETD*ISTF* QKC/RL*WRKDSL VNKC*SNWA/SPM KKIKLDLSSSSSSSSSSSSV*NVKLL GNNVGGNLQYRGLRVHTVDVKAQHI
6768	14819	A	7477	50	378	LEAWAGLSQVQTPSKFLENPSQSVRLTV PLRKHVPRKKQHEIRL*VGNNSDFT G*/HPGCI RGLRPGHLSRLMDLGLGLMV KSMERDQRLVERAQRLDQELLQALEK
6769	14820	A	7478	62	389	KRDPRKTFITPPVSGERQIRRGPTCKWG FLGLVGRGGPPEGEKSNLLWNP GPPLG PNIKGPRLTTPSSSSNFQREKHPGGG APP*NPT/LGRFGGPNKLGWGPV

6770	14821	A	7479	18	373	RGEPPSPAPIGIFKSPKRGFPKPTFPGGF LPKGGKKPGPIFFPGFLETKEGGTPPNPF KK/ARVFLVFKPKAGSSSSSSVNYKPYL NNTDTKFFNNMLANRI*QCIESSVMQYDR TRG
6771	14822	A	748	40	317	LRVTAQWASHTLDPVVGNGPSGWKEK DRDSEWGWRLDKSKTWVEVEAEGGLS GDTFQWLPGQSSQRPGLPLVNGAGVQ ETKGAGPL*SPAPLPPGSEGAQASCCSP VGAIGMYPLTGPLPPPQPRSWISGPSTPI LSLCPSPSTRSQGFPPQGLEVCVTPIELL EVRLKIRECFPSFL
6772	14823	A	7480	2	1288	FFFFFSCYAVNAAGNEGNDTALSFPERS QSRLCGFSQNTLCLLPAPTRSNFPGSCRP RQPPGSLPALALAAGDSPGEAGPPGEGS RGIQHTFP*IFRRIRVQGSQSSPSTSHQ QFINGEGQTS**QNLGLRTQEFECNRLIS RL**VVRFRSLFAFFLPAFHSPSPFF*GN V*ARLQGGQKMSLGAEGLHHRPRQGW RKTGKAFSAAYVGKNGNPAP/PWFPPKV FRTGAAK**GPNPISPKP*RHSLDLAKG RGDFPCARTGTLQSLAFLWPSRELIPTG CHVLICLGSRLGALFGG*GTAKRLSHK GRQSGP**N*FGRHTALPISAASGRVRV QLQRNEFLAPQNPILRLSSPLLPGIIVKE TVGI**GVGMR/DLGS*NEVSATIGN*ESR GSSSNRMVFLPLNARESPSRFETVN
6773	14824	A	7481	3	352	QFSIE*KKKKIPPTQA*DKQRLNVQKYKI LLVTRKEGPNKKRGKPCPS*IRKLNIVKTS IFPKLIDSYNKFPNY/LASLLELTSCILK LIWEAQNPFMKMQARARTVKTLSKKKNK VEK
6774	14825	A	7482	2	253	SMKKVERSKISILSFHIRKLEN/QLNPK*/R RRREIKIGAEINEENRK*IEKINETKSYF WKISKLAKLIKEKTQITNRNRAY
6775	14826	A	7483	2	1114	WSHRDWICPASGFQMLNVGVSQGILRK KLMTYAL*LLQLTVWRDSRLLCREGAP K*SL/SSLPESSRRQSEFEKAKTQCLFINA AVDSPADYHISLAQSAQICLTHPELQ EICCQLIKQTRRRQPNQPGPLQGWQLL ALCVGLFLPHHPFLWLLRLHLKRNADSR TEFGKYAIYQCRQVERTQONGDREARPS RMEILSTLLRNPHYHSLPFSIPVHFMMNGI YQVVGFDASTTVEEFLNTLNQDTGMRK PAQSGFALFTDDPSGRDLEHCLQGNKV KPSPPQEPSPTNSKEATLYKKSKLCKKFN SGVPQNFQSNLHDKKKMQDFVKPIEF LIHNLIIYTFHIKERKGVSNNGDLSIRII RVDM
6776	14827	A	7484	4	252	GDVEY*SIYSLAPIRHWLRNGPRASTLW LFFFFFFF/ETQSCSVTRDCNGMISAH CHLRLPGSSDCPAS
6777	14828	A	7485	95	670	FLEGGWAHFFPPPKGGSFKIPKEGFKTP PKRKKIFFSHPLNLGPPRDLKGPP/HSS SSSSPEVINIYCSPFREGHGR*SKVSSW STEVNKPV*DKFHPHTSY/ATPCPLPGGY RTAVFSYSPK/HMQSLPTFOKACSFYPS FSHHSQSPTLVAPFFPCLMRASDKLM NDVPAPVFLPSEKGNHACSSR
6778	14829	A	7486	2	338	ENGWCWIAITYGRITGFLSLTCKS*LK RDLDLGTETMEILEENI GEVLLDIGLGK/ NFMITKTPKADSTEIKINR*DLIKLS*CTA KKS*TSNRQSTEWKIFGNYASDRTS
6779	14830	A	7487	117	334	LYAHKFNNLDEMDQFLQRHNTPKLIQEE /HRLTVIK*IKSIVINLPKQKA*GPDGFSGE MYQLLKEEIIYNVF

6780	14831	A	7488	325	353	CILKDRCR*LYAHKFNNLEMDQFLQRH NTPKLIQEETDL/SIK*KSIVNLPKQKA *GPDGSGEMYQLLKEIINYVF*RTDVE G
6781	14832	A	7489	3	458	KSREITLANNQCMATESVDHBLGRCTN SVVKYELMRSPNKAPELLVEDHHRGM VVKHOCPCGCVYCTAGNFMECQPESSIS HRFHKDCASQFNWASYCPCGHESSK AKEVTISLKQTPRPWPVPVQGE*GSSLV GRADITPGSGAR
6782	14833	A	749	2	333	QKRKGLTLPDF*SDFO*QLNGRHTHFQHP VVGNPQSGWKEKETKGAGPLCYPPSHS KVWGRGATSSVSEGGSQRAHLP/TSPA AQGLECRNTRLFKVRAVAVRLCYPPL GG
6783	14834	A	7490	49	457	MHNPDGASPTADPGSELQTLGQAARRP PPP/PRGTRRPQUTIPSPETPAGCFSRPMP PTREPPKTRGSRGHLHTHPGPPPLQGL APRGLKT/RRPPSVFAPAGTPOGKDQED CV*G*VALPGPPGQEAWSHP
6784	14835	A	7491	1	816	MDEAQOEALGASDWQTCSTRTQCLQR KARSQSDHFKGELGVSSPRVHPQAARRP PPP/PRGTRRP/PGPAHQPGN*AAAPGG RCPGSPQRLAAP/EGHLHTHPGPP/P PAGTPOGKDQEDCV*G*VALPGPPGQ EAYWSHP*GA*A*APPSARL*A*VPASEQ EGTEPLCRSVPGPVRRVLGAPARGGVCT GKAQAAGGPAELPAPTPKPEGGPSCSPG LEGV*DEANGSWLPGQAGSLPLEG*TE ASQSDSPEIR*PRTRPSARKPLSCFSRRP MPTREPPKTRGSRGHLHTHPGPPPPQP GPHKAKTKKIVFEDELLSQALLGAKKP GAIPKGHKPRPHVPDYELKYPPVSSERE RSRYVAVFQDQYGEFLELQHEVGCQA KLRQLALLSSLPPQSQKEAQAARVW REFEMKRMMDPGFLDKQARCHYLKGLKL HLKTQIQKFDQDQDSEGSVYF
6785	14836	A	7492	27	445	MHNPDGASPTADPGSELQTLGQAARRP PPP/PRGTRRPQDPPISEPTLSCFSRRPMP PTREPPKTRGSRGHLHTHPGPPVSLD REGVPRPGL*AKDLAPAV*GTPVFPTPRF NSRPRFPVAAAGTGAPRPQNRPP
6786	14837	A	7493	1	368	FQQNLTLSAHNCNLCRFX*FSCLSWDDR HVPTCLDNFLYFW*RWGGFYHVDQAGL KLLDSSTPSAS/SFPKCWDYRHEPCTWP* KYSFLTEH*LLPVY*K*IAKPPGPKQVKT FS*GCKNI
6787	14838	A	7494	10	504	EGDKGTPVLRGSSVSGSRRMPFLL LTCLFITGTSVSPVALDPCSAYISLNEPW EGTIDHQLDESQPPLCDNHVNGG/WYH FHGHRGDAMPYLSFFTRKPLWEPTAPV WLNHSHPL*GDGIVQRQACASFNGNCCL WNTTVEVKACPGGYVYRLTKPSV
6788	14839	A	7495	84	250	NRIENPEIKLNTDSQLIPR*FNWER/DSL FNKCWWNWIFCKCTMKLDPFPIIDKN
6789	14840	A	7496	63	743	SSCLLAFRGPAHSHCP*SAHSSKRPI HAQLPLVASQPEIQPGFAR*SCCLPVP SPGPVLPSPVWVYSPIS*LKTTYFGSAFQ HLAAIFVGLKLPQVRRSRPRSCXGAFGTG PATA*RWLFQAQVLPSPSLPRSPCLTVA FPVHWTACYFTALTDQTLPSHWTV*DKL IRLPASPGQSSCLTLASIGGAESAMVCL GPSHAFI.KTLQAITWPTICFGPM
6790	14841	A	7497	340	368	VPTICQVMS*HHPHSSSSSSSSSVINY*/ FGLLLC/QVAHFYNSIDQMIQSQRPM LQSLAFEBQIKVNGLI

6791	14842	A	7498	2	826	LVKKTCEVPLQAGRLYLDHHQSKPFLKL HSHKTHV*RCPLGIQTTPVTLRR/AFNLR PVLSPQQRVPVEARPRKCEHTHESFKNSE ILKPHRAKPYACNECGKAFSYCSSLQHQ QKSHITGEKPYECSECGKAFSQBSLILQHQ QRIHTGEKPYKCECGKLSARNANLTK HQANPHREFEALTGCSECEKAFS*LLSL VQHRIHTGEKPYECSDCGKAFRHSANL TNHQTHTGEKPYKCECGKAFSYCAAF IQHORIHTGEKPYKCAACGKA
6792	14843	A	7499	64	372	KLSTFFHRESVNEIKKTTIDWENICNTYE* KPVITYK*FLQIN*KEIN/DQIEKWTKATN RQIAEEIQQVINKHIKRYCSASFRRKKQIKT KKRCHFSITGKNYKE
6793	14844	A	75	3	298	
6794	14845	A	750	444	999	HSLTATALTGLSLVFLHSSPCCAAGLWA SDLPSVSLPLTQRRWLFPFK*KLWGG* QRGPAPLVSCITAFWFTQRRMRKDGSGIS HAFSPTRLRHPGVGGRSPRFLAWSVPGA GMVPLTGPLPPPPQPSWISGSPSTILSLC PSPSTRSQGFPPQGLEVCVPIELLPEVRL KIKECLSLVSVKK
6795	14846	A	7500	2	414	RQGLDSVTQARVQWSDQ/GSLQPRSPG LERSHLLSLSSW*FEISFRTLQQLVITGN ILGHQKITGTNHR*FMLYSSVCLFFEMES HSVQVQAGVQWHDLSLQPPPLGFKRFS LSLWSSWDYRHPSSCLAYCFIGST
6796	14847	A	7501	18	73	SYPGAASVPAPVSPGASPLRSSPELHLRL SSSASSLALAKNALSRASPSAAQ/ALPSP SPLLWPLTSSPGQASPVAPPSASNGT*W GTC*PEAILGLQSAQPPGAPGPPH
6797	14848	A	7502	3	363	KTASPVQVKFCAGVALPNLKRPLREK AQOQCI*PLLMAPRNTGRIPFCSCNIPVLP GQKHGTEDYWFVQDLRATRQIFKAIYLV IPDAYTLFMTLTSELYW/WSVLNLKDAFI CIPLSPES
6798	14849	A	7503	47	231	NCSSVFCFPGSQRVGSILGKSW*GWVVA TGVWLLNPLKAVQGEYSKMEGRPE VTCRHL
6799	14850	A	7504	1	3099	MGSCSGGERLGTSPKYSMGKWEFVAKE QCGVPCPVQLGTLRNDLSLEAQHIEYVK QGNVYKVKILKKGQSHPSPRVHSLFTE GTLDPQAPDFCLMARETONQDAPCAPF MAEEASSPSTGQPSLCSFEINEISGCLIL EDDIEPPGAASSLEADGPNQVDELKSM FEFLDKMEREACCFGEDESSKAETEV SFDDWDWQNGSLSSLSLPESTREAKSNL NNMSTTEEYLSKCVLDLKMIMQTMHEN DDR
6800	14851	A	7505	2	707	LTHI*IHAGEKPYKCECKGAFNQFSNL TKHKIHTGEKSYKCEECGKAFIQSSSTPS KQINDGEKPYNCECGKAFNQASNL*/ HKIHTGEKPYKCECDKAFNQSSSIFTKH KKIHTGEKPYDCEKYKGQFN*SSVLNTH TILTAELKYKPVRCDSADNISNFSNHK RNHIGES*KCGECNKVFKWLSHLIGNI HIGKISYK*BQCGKVFN*YLLHRKSPFIE KNCRN
6801	14852	A	7506	1	681	IVTADQLLGMGQWAAIRNQTMNDDEVI EQLWKCCLDADWDKIQDDDKLPCPF*QP SDGAQT*NRIPHNCPIFKDAEAKSY*TA RANDLL*NLMAIEQVNPRL/CQV AICPK GKIPPGGDVLSYIKVCEGVGTLRTAM VMAQAMVSIRMPGQFPGKCFCLCSQSGH SKRNCPWHITDRCSFOHQQPKFFQQAQAP LSTICPROQKGNHWVAQCHSKFDIDGNP LRSLP

6802	14853	A	7507	2	342	STVKGPCSMCRTHHVPHMGFIQVQOG WHDMA/C/SINVNHSVNRMKNNHMI/S NDAEKAFFDKT**SVSIKT/L/NKLEVKGM YLVIK VAYDRLPARIIADD*RAESFPLRL GKR
6803	14854	A	7508	1	358	VFQSFHKHRNOKVPEPPPLSKT/AKNLFA QI AENIASCLDSSSCYGYKKANIRDQWP *EAKELMPQDNFN*LFQTDTRSSW/L L.KTSIIKKYHVTHYEKALKTHEKELTCLR HDRVGTG
6804	14855	A	7509	2	681	
6805	14856	A	751	172	431	IGRPITKQGLQOWTAVWERMERTNKSRA WPNACEGPAVGNVIAWASGLP**MLKT RAARTWVQAGVRESAQGLNKNRRIIE MGLSR
6806	14857	A	7510	670	1466	KKIRPFFQIFDGFISNVLVFAQSGFPCCLP VAPSVTS**LKAAYTAGLEVPSDVSRA FE/WLSAFPLDSPYIHHPRRIQVFLKRE GSSRRWVLEPTADSDPAYSSKVLSSP GLEELYRCMCLFVDDMAEPRETPHPLK QIKFLLGRKEEEAVLVGGEWSPSLDGLD PQADPAGSVVWRTAIRLCAGPELGDLS AVTKWWRFAEVSVPAGDPGGLOTVV VYLPGLCDHHAHYGRKWEOPGAKQKA ARGSSPNFGRHKG
6807	14858	A	7511	155	359	VNSSHRDQWNRIGGP/ETNAYYQGLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6808	14859	A	7512	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVPIFLLQND*TAFFAEMEKPVLFKFI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYY QGLVDFDKEAKFI*WRKNSLFNKWCWET GFFYKKE*SVDSYLTAYVKI
6809	14860	A	7513	155	359	VNSSHRDQWNRIGGP/ETNAYYQGLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6810	14861	A	7514	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVPIFLLQND*TAFFAEMEKPVLFKFI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYY QGLVDFDKEAKFI*WRKNSLFNKWCWET GFFYKKE*SVDSYLTAYVKI
6811	14862	A	7515	1	399	NVLWEDCIAGQAEVLHDSYGHIDWSPK GMFSMNCTSQSCPWPHYVQLV*TERSD SRNDKKYKGSSYYLETWQYSGPQPQMI WPAVGAHKDLWKLIIAFD KIKI WEGK YTMPSQYNPNYILELVNNTIW
6812	14863	A	7516	10	225	YCNTHVGFNFTPLSGMDRSSR*KT/NKE TSELNITYVDQRSLTDIYRTHFPNNLMIHL KELEKGGQTKSNIN
6813	14864	A	7517	37	348	WKMGOPLGPRQPLPOLSQEKILSLNSPNV FSSSPLK***NILPKKKRPDCFTHKFYQTF KEEIHFFLKT HQEFKKEILLKSFYEGSV V*AAKLNADINKKTTTH
6814	14865	A	7518	3	353	CRLGGLKGRSREQGAVIREGEDTLG/SET EAGRPAGLRQOQRGRPWLPNVPFGKH GVPTGEEHWAGEPAGWGGSVSGOAG*A ESRLSSSGHSQKGGAVMLAADRRRG QRRRGSG
6815	14866	A	7519	54	284	NHKTPEENIGEKLYDIGL/NDNDFDMITPK AQAMKAKVDRWYGIKL*NLCTSKETIN R/NNRQPMELKKLMANHISDKR
6816	14867	A	752	253	428	QASGVSDLO*KLCAC*AQSQDLRGGGFR EARKTST*QPGFGLLFCLLYSANKLQESV TFKDAIDFWEEGIQAESARQMTVYGE VMVENYQEPGLGKYLFTQTRGGPL

6817	14868	A	7520	29	261	NHKTPEENIGEKLVDIGLNNDFLDMTPK AQAMKAKVDRWVGKIL*NLCTSKETIN RI/NNRQPMELKKLMAHNSIDOKR
6818	14869	A	7521	5	2088	LSFSSQGRGADSA/PGEFSGTQLPPQGG LVPQHLAQHPVPA/EVGPAPWVPGAG P*TSPSGRGRPLCPAPGPPLPLPAAGPG /SHGQPPFMLLDGLPGPPGGSAGSLPG SSALPRPRGEGVTPGIRGEGRLHTGA/G APSHSHSTCPSRRWQAGCPTLTAPPPPG WATSPPPPESCRVRSGTSK*A*NPGHAA ASSGRWDRGPAAAGPRPG*AHPA*GS GASGSSPGPEGGRAGT*PCSTEPSPGH* STGPSPCPAGGPRGRLLPLPGPDQGRW APTSPIRLTG/PKLQTTPTSCPR/KLAEG EAPGLMGVQVRQCEAQHTQRPVWLVV LQEGQDQVCELEPVVPAGPRGAADG RGCHRRQA/P*RAGPGRRLPCSTAGAA GSFPPAPRSGQGQLGLAPGTAAEQAA HRAEPFRCKMPA*/PGPCVSTTCCVSAS ELGTPGSEPLAGRWREAGSSQAVGLAA GGGGC*QDRTPAAGFS*GAGKGLRPPG LVTSLSAVGRCASEPGGASGAAGRGRS GSPREPRVGSASRSPCG*AGCRASSA GCRPRPGRA/GSAGEKADTYSCCRASA/G RPERPSRPGARS*TPVRVYTA/GMVGGQ GLATPGSPCCCP/GPPGGRPSRPE/SFPR ADPSGYRGLPADRHWSKGP*GAPLPGPG RSQAWALLGPQHPRSPAPAGGRGRAG HRAE
6819	14870	A	7522	45	301	AGHHHWRKGPEAPRHEMCPGSSKNQGL VQGLAGGWGTKGKILKGSSTSPGPGS GQIHLKAGTCCGGSSKDRGVRNYSGR LLRR
6820	14871	A	7523	453	704	AGHHHWRKGPEAPRHEMCPGSRSGEG ATCFARGR*RPFGNSLNSVRMGTSSYS CRRHSPAFLSWGKGRCHLCKAHLLAG A
6821	14872	A	7524	3	543	TCCQAAAGTGGSGAPGLASVVGGAAPL WSSF*NSLP*QIRFALVPLPGCRAPGTFPA VPLYSQWPPGPQRWARSARGEVGVV LAPHFPPTWPGRHGEQSPRRHHGVGH HHQHVMAIGADMRRGLAAVAALVAS* AGRVLGWCGRPARRAAQLGQEGAQGT VLALNGLFFFSRRHGC
6822	14873	A	7525	218	533	AARRAGRPHHPKTRPAQLATSATAASP RR*GRPWGRGLGPAWRPGRGAALGA QRCGHGVRAPVVARAELGAAGFGGAA GPGAARGQCPALLPGRVEPRAARGVRT TPRPGQLSSQQAQPRKARAAYPRREP* HADDDDLHGAADRSSRFGEVHPVQGH TANPSDGGPVQQHQLPHRYHLHLV *HSRPSGPPGATG
6823	14874	A	7526	3	1185	GPRR*GRPWGRGLGPAWRPGRGAALG AQRCGHGVRAPVVARAELGAAGFGGA AGPGAARGQCPALLPGRVEPRAARGVR TTPRPGQLSSQQAQPRKARAAYPRREP *HADDDDLHGAAGVSVFRGAPARWA AGGVGRGRRRPLLPWPGCERSFSSSL* HSQICF**SSEOCGEWEGVYVDPDGG PVQOQGH/PASQPLPEWKVAEVTGDA RSTEDTSWKGAGGSS*EGGSGPPGPP GAGGLPGHNGLDQGPQGPKEGKGAN GKRKGMGATG*L*RYGWHLGGASFALL *AGHHHHWKGPAPRHEMCPGSGSGFR ENGHTPSKPAQSSEGG*LPHSPYQSGRW QKLLMGQGVQTRHHGAREQVAVPRKV DLLDHQLREPAAGCOTDTTDMDSLVL AQKEKKEQMEKEKWLQDNVEDMAG ISEELPLCYBQAITGQEKAKHQHGTCA GCAADLAEPGPGVDRGGRGGRGADNGL

						OGARAASEKGTTHRPSQLNPQKASNYH WNYTAAMDRSYRIIIIIHEHRCRMPIG LSWEVLQKCDSVLRPRQWA
6824	14875	C	7527	35	217	MXDSRGRXPGARTYRESGPXXRMXGR SREIARWPRRRPLAPLLHRLLPSPRPGIC GGAA*
6825	14876	A	7528	2	342	RALPPPKDPSLLSSIGSYRVAPESVEGPL /SPWERKQGPRLSCMS/GLPQLRVGGV RG**EPQGLPQDGPAPHTRCGAEPSSL SLPQDGVQDAAASFLHTPSQTPCVQRE
6826	14877	A	7529	2	440	PRVRPRVRQSSHSWRRCVPPPPPTMCL SAHPAFGPDPGTSCESHVRVIMTSIAQWG N**V*RGITCLKSQEVGKS*GHGASCPMT GELKCPHCWG*TGPHQLPG/MSHMFVCI LRGLAGSPARTAARGFLEVAFFKGTIPE RKPLM
6827	14878	A	753	963	1497	NTALSNEEILVMAVVISFLSLTFFQLME GTRLNKLWGFIPTL*FSE*TLSSIKAKL LTILTSLKFNREVKNVCHVFVEWFWSY HNNLIKMPFISMTPLNKMKAFTFICK MTVNNNMHQSTIYAK.GEEHLMGCYVN CKLRTACFMAFAVKKLLAFNMFYKIY SCLGENF
6828	14879	A	7530	3	471	RALAAAERPLAPLLHRLLPSPRPGICGGA A*PWERKQGPGRFPVPSQVLPAC/GASP PG/PLGTGRGHGADDAAPRRTS*SEVGSV SVRDPG*IEQSGDGRPLIGHSRWDERGLR GLGFVTGK/PWIKGGAILPVGPSKVVLGL YTGRGAGLARSLOQY
6829	14880	A	7531	2	1021	FFFFSCETTENLIFFSGEVSNLILPVPVGH KGL*GGVKEEGCGCV/LGLRPVAGSPAG MAQPSAPVQAGSSILEEGLVLSQPR PSRGSQGPVSPSPWKV/LQPPVRRTPTPH ASWGKPTHASSFVGLGAQGGKRMPLG GPGCRPAPOLGAHLVYVCPFSAPIRGL RSGMVPLKKAATS*DTSGSSPLGEPASP QLHLFN*SLRGASSVPLSTAS/PPEPGGLR TQALGRY*ETGKWPFITGLLPRLSPST DSGAGTR*EPMEERSEGLG/ERPARDPP GSVPTCGWRGRGSPGTCG/LPGQRLGR ALRAAKTRPGTCRATDRGVPPGLPRLCR
6830	14881	A	7532	40	403	QWHLRAACSNLASAVSFRIFLYYGERRP SGGARPMILTSPSLTAWIINPLSQQL*YL AAEQQLHRGPRTAPVSGAE*RWTFI/ IARTHCLRRQGQRPFPVSGATGAPSFPL QQMPRR
6831	14882	C	7533	182	289	
6832	14883	C	7534	50	223	MEQLCTKVRRFKITLLALILXXXXXX XXXXXXXXXXXXXXXXXLSILYEWYPCH LK*
6833	14884	A	7535	3	398	SNLASAVSFRIFLYYGERRPSGGARPLT SPSPTAWIINPLSQQL*YLAEQQLHR GPPKIPAPVSGAE*RWTFI/IAHTHCLRR GQGRQPPVSGATGAPSFPLQPMRFT

						PGASSSHQEATKSSTREF
6834	14885	A	7536	287	568	CLRDGSPSPSCGLHCHCPACQ*PTPHPHY KHPAGESIPGNTPMASRRKPASPTSLR RAPPALILSFLCKMGTLPHASRCGWKE RSHVLK
6835	14886	A	7537	574	1266	SIPCSSSFSTWLQSSRNFTEDILASVLISA STQSAQSRSPQNQLCKGGQAAPPASS HPISSHGWLGLCLDDPPAKDIIDFPLVLP PYAVSHQCRQLQYGA5AFCEMDMDGSS LISPWAKYPKQRPQGQVFIRVPKKHMQK GSACPLWPVRGKSLPVKMHNPGLAGR WKSS*STWT/QS/RSCGLHCHCPACQ*PT PGPHHKHRPAGESIPTPTNCFEKEACV PYFM
6836	14887	A	7538	1	785	NRQLSCGTALSTGGIYIGERSVRVWGH RFHCLGNESLLDNCQMTVLGAPPCIHGN TVSVICTGSLTQPLFPCLANVSDPYLSAV PEGSALICLEDKRLRLVDGDSRCAGRVEI YHDFWGTICDDGWDLSDAHVVCQKL GCGVAFNATVSAHFEGSGPIWLDLNL CTGMESHLWQCPSRGWQHDCHRKED AGVICKSFTAFLYSETETESCAGRIEVP YNGTWGSGRRNITTAIAGLCCRHLGC GGRNGC*PCHGNTVSVICTGSLTQPLF PCLANVSDPYLSAVPEGSALICLEDKRLR LVDGDSRCAGRVEIYHDFWGTICDDG WDLSDAHVVCQKLGCAGVAFNATVSAHF GEGSGPIWLDLNLCTGMESHLWQCPSR GWGQHDCHRKEDAGVICKSFTAFLYS ETETESCAGRIEVFYNGTWGSGRRNIT AIARIVLQATLAVGEEMDANPSPL
6837	14888	A	7539	1	1113	
6838	14889	A	754	1	363	WRESPHSARPRLEPOCYDLSLIPPGLK* CSHSLPSSRDYSCCATMPS*IFCVFVGE MRFHVAKAGLKFPSSNPASGIPKCW DYRCILQGFSSFEAKPRMLIFTLICSGH VMS
6839	14890	A	7540	1	214	VAFFKSAGASVQEKQAQLQEQVKEQRV CCQLAHPVASAQKEPEAARGPAP/WA WGRV*QLYGPPEGEGRP
6840	14891	A	7541	3	141	
6841	14892	A	7542	39	210	
6842	14893	A	7543	72	353	QRCPGGHIYSHKFSFNDSPVLPGTVVCESP QPNPGPFDPTVWQWGRPIPHRHSALRL QS*ROSGSP*VCLAGSLCCPWRLRHG LCAHPGQ
6843	14894	A	7544	5	726	AAILYSGRLLSOPVVVESHPHYTDTS GTVKIPGAEGLRVEFDRCQNTERRIDPL TVMDGVNRIVSVRSGREWSWSSERLIP GDELKWKFSIDGSVNGWGWRFVTPIM PAAGPKELLSDRCVLSCPSMDLVTCLD FRLNLASNRSHVPRLAASLAACQISAL AASHRMWALQRLRKLLTTEFGQSINNR LLGENDGETRALSFTGSALAALVKGLPE ALORQFEYEDPIVKG
6844	14895	A	7545	441	1009	GLSHGRNTGPLTTSQASTSPRGNPNRAC VARTRVGVPA TELLMWEEEMRCVQLFCY SKARSQCSHQG*DV*VFYQACVWSDT WHYLOPLTDSG*YA*KLSD*VMSGPILA TGPCSHLA*LLDSEPLERSVSFFCKWDV RLLGKTSLLCCVGLEALSSSEIFNCLGVF VWNLASCLCGSACCRVFLRDT
6845	14896	A	7546	59	378	

6846	14897	A	7547	31	302	KGRRVLWWGDKNIHERSWHKGYVMGQR VQDRQKRKLCQLMGKKRSQRA*ILSQTE HLHVSHLLCCQQQVSTGRALIHLLP*RI WRARAKNEQ
6847	14898	A	7548	1171	1731	SPRWSAPRSPSGAPSDASCDGLVPMNGR KMACWPVDIKPTDWSFNFWQEKREIVS SEDAVTPSAVTPSAPSASARFFIPVTDDL GAASIAETMTKTKEDVESQNKAAQPEP QALDEFTSLLIADDTRVVVDDLKLSVCS RAGDRGRDVL SAVLSGMGTAYPQVAD MLLELCVTEL*NPERSPT*CFSCRACDEE VSLALECWEPEELPTQSPALTTQRAQN TMNKLNFHNRVMQDRRSVCIFLPNDESL NII/DKCLVFSWGDGDFGKLGROGSEGC NIPQNIERLNGQGVCCIECQAQFSLALTK SGVVWTWKGDDYFRLGHGSDVHVRKP QVVEGLRGKKIVHVAVGALHCLAVTDS GOVYAWGDNHDHQQGNGTTVNRKPT LYOGL*GQKITRVACGSSHSVAWTTVDV ATPSVHEFVLQPTARDPLGASVGVPSD ADSSAASNKISGASNSKNRPSLAKILLS LDGNLAKQALSHILTALQMYATDAAV GALMPAAMIAFVECPSSFGAPSDASA MG*SP*MGEKCLLAC*YSENRISPFW QEKREIVSSEDAVTPSAVTPSAPSASAR FIPVTDDLGAASIAETMTKTKEDVESQN KAAQPEPQALDEFTSLLIADDTRVVDDL LKL SVCSRAGDRGRDVL SAVLSGMGTA YPOVADM LLELCVTELEDVATDSQSQR
6848	14899	A	7549	2249	5398	KCHLRAGRCRDVTAIFWLQSSFMDQLEE KADLRKSITFYQNGQGRAKDAALGGGH HQAGAQQGDEGEAAGAAADGVAAYSN YNNQHRKFLAT AQNPADEHPGAPAPQ ELGAAAGKHGGLPNLRLSFKALIRDMAI LPFQWNLISFNAYLGLVFSWGDGDFGK LGRGGSEGCNIPQNIERLNGQGVCCIECQ AQFLLALTKSGVVWTWKGDDYFRLGHR SDVHVRKPVVEGLRGKKIVHVAVGAQ HCLAVMDS
6849	14900	A	755	1	433	FFKNFYRINRDSYYKAAKFFPVLICSSFH SYCSTLPQAPLPQAWLNLRRSSGVFILLI SIVRADVP TPFQILGLEAPPSSQSYFLPFS SMDGLMLHPNRKVQGLTFSRPGEVAHT CNPSTLGGRGGRJA*GOEFETSLGSLIS
6850	14901	A	7550	1	609	AAATTTTKLAAARQPLPGGGGESAVGA GAGREVFYILFATASAKRGGGRKRTPG AQSSGR/AVLPSLGPGRFLAGVC*GSGG PSPFSSPPNHSQ/PAGAGGEPGNRGPKM GVLA YSLHL*VPCGVSRNTLPAGDGNPV P*SPFLSFTWSP/VP*PWG/ANGPWADP PPSTHTVF*PSGPPGASGAGPPSWRPA KGFAPPRGL
6851	14902	B	7551	222	360	XAVLALRPWDVEAEQFLEVSLFFFLFS DPRPRDLRLERLREPT*
6852	14903	A	7552	1	601	RDTSRNCSASTSQCRKASTAPGAEG/DGP QASGRGGA VTTGRGRASSGRGRSVMLP CSRA*DVARRRRRQARGSSGKLHLCSG KPLRKRSPCSRVPAPGQSRGRRTSSFP GFPA SP CITERSRQKARRRTSSSSSS SSSSSSSSSSSSSSSDGRKKRGKYDK RRKKKKKKKKKKKKGKKAHSRQSIIR
6853	14904	A	7553	42	384	LKSAALSHGAKAQAGDFNLIPIPLRRD WAGPETNPRGKGHQHPSGFPLAP*NLPR LGRQSSSTGLGORGPSGKQPSHLEQQA VPSGR LAGEESTQDGRGTSQTDAGGWM AGM

6854	14905	A	7554	1	713	AKGAGLEARGAMAHVGSRRKRSRSTRS RGRGSEKRKKSRKSDTSRNCASASTSQGR KASTAPGAEASPCITERSKQKARRRTR SSSSSSSSSSSSSSSSSSSSSDGRKKR GKYDKRRKKKKKEEESLKEEGQRKKA EAQ/RGRASSASVDP*DAHAQAY*REM /DEGPKRKS*PKNDTERSTQATQRGTAD GHCQMOSDGYASREGPPHGQPDGRQL AAQPGQVSGQOWEA
6855	14906	A	7555	2	642	HALTTAFNIVLEVLVSARVQKEIKSIVI GKKEIKLSLFTDDMIVYVEYPKIDKNAL LEISNFTRVVGYKVNTQNSVTRFVYHQ *AS/EYLKLIKILFALEPPKVEYLGSLNLT HAQDLYEKNCKTLIKEIKELNKRWEILC G*KYSVFVKMSVLLNFVYRFNAVPIQIPVS CFVGIEQT/SLKFIWKAKRPRIANSILJEN NKVTGLTLPPFFKA
6856	14907	A	7556	3	577	TSNECGKTRHNSVLVIHKTHTGEKPYK CNECGKVFNRKAKLARHRIHHTGKKH* KYEECDKVYVNVQLKDRHJHTGEKAY KCKSCDKNLGRDSHLAQQTRSHTEKPY YKCTECGKAFSGQSTLIHHQAIHGKGLY *CNDYHKVFSNTTTVSNHWRHNERF*K CNKCGKFFRHCSYLAHVR*THAGE
6857	14908	A	7557	286	336	GL*NTTS/PKISTEYISP*AKPPVMRGQD SVLYHSDYDEEENRWVWAVNGKSLSCS IAMVDKLIERDGGSEASGGINDGEKERSL TDAIPLSPREDWYEQLYPFILITKECV
6858	14909	A	7558	2	246	RPLKHTLVTCDEGGL*FEPSFVSG/PPRC A*GDGTPKEVPFGTATFYHYLPTAYGC MLTST*RKVEETLDDFYDGNRRGR
6859	14910	A	7559	3	348	GWRLVRPLFMGHRQPVISGLQPEOPLHL KL*FLCSGVSDCASFVQSPKVVFEAK EQLARRKLQAEAGASATLSEVAQAQOT EVTWYKDGKKLSSSSKVCMEATGCTRR LVVQQ
6860	14911	A	756	362	567	PAPTGTWDRYHKSPLANFLFY*ROG FHHIGLAGLELLASR*STHLGLPKCWDY RCEQHVPENIF
6861	14912	A	7560	16	220	HREMKTGNDLKILQKVNKLWHLYTTAY *KRAIKSKLLVHTKITVWNKLGVLVSE *SQSQRVKYWSTRP
6862	14913	A	7561	204	868	KGNQVSHESYWKFRTLISL*QKF*VLKR/ YYRRAVKLVNMSNIAEHPGMKTGECL RCMFVWNLGCIHFAMSKNLGIFYFKK ALQEE*QCLCTAPVQVALIQVKNFQGRP MCTLNPIRGYELLNCGISLLHIGRPL AAFECLIEAVHVYHANPRLWRLAECCL AANKGTSEQETKGLPSKKGIVQSIVGQG YHRKIVLASQSIQNTVYNDGQSSAIP
6863	14914	A	7562	1	1047	MVSISWPRDLPASASQAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHPIPH PGRRHVHGLLHWCAQVPP*QPELLASL RLSRGYGLVLSWLEPRYKMGISMYLG EIVRNILIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRLLALLQVRAILQQLGNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRNLVTGVDGTLV KLHPHFSRIMHQTIVKELSPKCNVSFLLSE DGSCKGAALITAVGVRI RTEASS
6864	14915	A	7563	77	2246	
6865	14916	A	7564	1	475	HIKNMTFIYFSSFICFPFRWSLDSVAQA GVQWRDLGSLQAPPPGTFPSCLSLLOS SWDLQAPRHRLRLIFLYFFLVEMGFUTL ARMVSI*PRDPPALASQAGITGVSHRA RPETYNFCFSIIHSLPVEPEARKMTKNSD IGEIWNLTCLIV

6866	14917	A	7565	3	362	SAIHV*DINTVIMGGTTTROMNKEIEDVNS AINQEDLLVIYRTLHTAAAEFTFFSSLHE VSSSDMMMLGH*TSLNKF*SEIQNINSDH KGKIFENNKEI*KIKHYVEISSTLSKQG
6867	14918	A	7566	188	1055	VKAABEGDSGSAWVLEADPTGGPGLG CRGTKYLLRSGAGGLSD/GGPCGPGTDL ALSPKPPGLHGPPSPGAI.AG*DLSRLLP AHSENWPGAAGGGSHRA*VGS/ADQAD NDTEGNNKDPGRPQAQPSRCRGLGPATG RSGWPYGPS*PTWGGQPVSTPREGPAVG RIEAKGKS/NVGGTGGMAPSPRTCNLLS LPKLSGVV*EAWNPGRADVHIMHAVGLI KTSHEWLDPPADSQAGSCGASGOEQPQA ASGSAARRRCSQGLRLRHQQQEEGP SSQHVGVCVPCGG
6868	14919	A	7567	2	380	AR*LPSRVNHMVGHKLSLNR*F*KIDIQSI FYDHNSMKLENNNRKTKGFNLW/RII* IILY*TTIK*KKKITREIEKYLEMTENRNK TYRNLWDAAKVVPKGFEIAGIASI*KG GKSPIQVS
6869	14920	A	7568	1	370	GTSAWPQYKLDNDISK*FENGTFEFSILO VLDNSCHKMGKWEVPDQQAFFSHWS LPSLCSQC/GLIPNLSSFSFWSFG/PPPQV PSP/TESSFSMDSSDLPSPQAAPRAQEPG PNSHLASAPPY
6870	14921	A	7569	3	369	HEVKTMKILEENI.GEYLLDLVQKDFINR T/PETIS*NKIYKFNFIKIKNFCSLDKILKEI NVRIDWEKIVTKHSDKGLVSRIKFHDSDV /YKMRTOFFPKDKDLGRVFTNKET*MV ASGHLKMC
6871	14922	A	757	204	389	DMGYDVTRFQGDVDEDLICPICRGVLEE PVQPCQTKVICILGQV*GEAHDYHAPYC EHAFC
6872	14923	A	7570	1	2722	MGSAPVPSQACLEALLLIVPWGACGVSOE EEESPAGSGKDEPGEQVELKEEAAPVE DGSQPPPEPKGDATPEGEKATEKENGD KSEAQKPEKAEGPGEVAPAFEGEKKQ KPARKRRMVEEIGVEI.VVLDLPDLPEDK LAQSVQKLQDLTLRDLKQEREKAANSI EAFIFETQDKI.YOPEYQEVSTEEQREEIS GKLSAASTWLEDEGVGATTVMLEKELA ELRKLCOGLFFRVEERKKWPERLSALDN LLNHSSMFLKGARLPEMDQIFTEVEMT TLEKVINETWAWKNATLAEQAKLPATE KPVLSSKDIEAKMMALDREVQYLLNKA KFTKPRPRPKDKNGTRAEPPLNASANRA FPSPLTPWADQNVLSTVSPYPKIL.GKGET MVPVPRVGRMVGKSREAVQAQMVLEM FREEDYYNDDVLDQMGASILGVEGPRR HPDEPPEDEVFELPFPM/MGGLI.SAHNRA VLAQLGCPKINLDALENAQAIIKKL.GKL GRQVLPPSELDLH.FHYEFQONQRFSAE VLSSLRQLNLAGVRMTVPKCTVVAAVL GSGRHALDEVNI.ASCQLDPAGLRTLIPV FLRARKLGLQLNSLGPEACKDLRDLH DQCQITTLRLSNNPL.TAAGVAVLMEGLA GNTSVTHLSLLHTGLGDEGLELL.AAQLD RNRQLQELNVAYNGAGDTAAIALARAA REHPSLELLHEVQRNLNSWDRARVQRJ LE/HP/SCGIWKIAGVPLH.GARFSCCEW RARAPSKSPLRRCFNSHPEPASVMPA*T NLSIPWCCVASSI.LRRCQSGL*PSS/HPA AVSMETYHVTLTLPPTQRGEEQVELSTIE ELIKVP*SAPSQF*WSTSGLALPQEAUY PVRSHP*CPRLSQSPDLTGYSYSGFGL TWEMSWKAPRNCV
6873	14924	A	7571	2	394	

6874	14925	A	7572	1776	3257	TNLSIPWCCVASSLLRRCCQSLS*PSSPPL PSPWRPTTSL*HCHQHREVKNKWSSPQL RN*SRMP*SAPSQP*WSTSGLALPQEA YP/REKPPMMPQAPQAIAPRPNRLRLQLR ASH/CGK/WSWKAPRNCV*LNSTTPCS RSGPSPRGDLPRWSGQKTWHLGSQL* ATTPGPMEL*VELFNPDCGRVQTVVL YGTVTGKSTLVRKMLVDWCYGRLPFAF ELLIPFSSSLOQLVAQRYTPLKEVFLMA AAGSHLLFVLHGLEHLNLDRLAGTGLC SDPEEPQEPAAIIVNLLRKYMLOPASILV TTRPSAJGRIPSKYVGRYGEICGFSIDNL QKLYFQRLRNQPYCGYAVGSGSVSATP AQRDHLVQMLSRNLEGGHHQIAAACFLPS YCWLVCA TLHFLHAPTAPQTLTSIYTS FLRLNFSGETLDS TDP SNLSL MAYAART MGKLA YEGVSSRKTYFSEEDVCGCLGG WASGRRRSFSWLHIFRSQW
6875	14926	A	7573	201	1436	FCDPREY**ATSPTRRSWPWSISHPRPG SHPLALSQFNPDACGRVQTVVL YGT VTGKSTLVRKMLVDWCYGRLPFAFELL FFSCEDYSSVGRAPASMCQLVAQRYTPL KEVFLMAAAGSHLLFVLHGLEHLNLD RLAGTGLCSDPEEPQEPAAIIVNLLRKYM LFQASILVTTRPSAJGRIPSKYVGRYGEIC GFSIDNLQKLYFQRLRNQPYCGYAVGG SRVSATPAQRDHLVQMLSRNLEGGHHQIA AACFLPSYCWLVCA TLHFLHAPTAPQTL LTSIYTSFLRLNFSGETLDS TDP SNLSL AYAARTMGKLA YEGVSSRKTYFSEEDV COCLEAGIRTEEFQLLHIFRDALRFFL APCVPEGRAGTFVHHRHAGIPRCLH CAGFAQDDPAKGGGSGG
6876	14927	A	7574	1	376	PFLPPYMKINSR*SKDINVNFKSGSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSPL*KKNTPIKKWVKMDRPRRA
6877	14928	A	7575	288	468	KAEAGGWLEPRSSRPWRREAGAGQSP GPGGRGCSEL*LCHCAPAWTTE*DLASK KKKQK
6878	14929	A	7576	1	378	YRKP/TADNINIGERLDAFPLRPGTRQGT PFLLLLFNIVPEVLVRAIKQDLUETIIV*IR KEEGKLSLCTDDMIFYVEN*KEFIKILLE QISSQVAEYKINIQQSVVFLYTWNEQSK YEIKIISRA
6879	14930	A	7577	840	1093	QHKNLVL*SGRR*LLSQOQES/GIFFTLVI TTFCWER*NRRLSQI*RMTOGARHFQEP VIPAPWEAKAGGSLEIRSRPAWPTW
6880	14931	A	7578	254	701	KTGKEGPRVRLMPVILAPWEAKAGGSL EVRSSRPWPT**NPISS/KNSKNKISLA WWCTPVVLATEAET*ESLEPGRGCS PRSCHTAPWVIGAPSQKKKKKEQARR SWLAGHSLHLASYAGRCGRVGGLE PRNSRAAWAT
6881	14932	A	7579	12	154	CLCMSTCMCACVCSVCMHICVCDCVC /CVCVCACAYI*LRVCVLCVCFVLYVCIFV SVIVCVCVCVRYLAPPHKSLLLK
6882	14933	A	758	381	1335	DMGYDVTRVQGDVD*DLICPSCGVLEE PVQAPHCEHAFNCACITQWFSQOQTCPV DURSVVTV AHLRPVPRIMRNLKSLQIA CDNAVFGCSAVVRLDNLMSHSDCEHN PKRPVTCBQCGLEMPKDELPHNHCIKH LRSVVQQQOTRIAELEKTSAEHKQLAE QKRDIQLLKAYMRAIRSVPNPNQLEETI EYNEILEWVNSLQPARVTRVWGGMISTPD AVLQAVIKRSLVESGCPASIVNELIENAH ERSWPOGLATLETROMNRRYYENYAK RIPKQAVVVMACENQHMCDMDVQEP

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6883	14934	A	7580	139	350	AJMAPNFFS*VKT*SQEDGQTPNRIKLKK STRHII/IAEN*/LAK*NILKAVREKWLIT CRRTVISMTMDF
6884	14935	A	7581	17	245	GG*GCSCSEL*SCHCSPA WVTTSKLTQK KNPQF*QVV*NI*ICLLIDFSEGLFLPKS YCQCKVTLQCSKSL
6885	14936	C	7582	82	300	MLGIFEGQLQINQVETGLKRWLRNRNF LKRFCYLLKSLSRSSRTTTTTAFVCDGR WIMQIPGSVLPFPQCW*
6886	14937	A	7583	1	772	KENLITFPRIQPISKDDFRYRGALARKRI RLGRKYVISHKEEVLCHWDISKQASLS DSNVEALKKLAARGWEVISTVEKIKIY TLEEDVLSVWVEKHV/VEVQHI*LIRLL SDFTKRPLWDPHFVSL*SHRLG*VKDDQ LYHITCPILNDDPKDLVLRHIEGKPLK DGNTYHS/VAVKS VILPSVPPSQYIRSEII CAGFLIHAI*QQFMHSYLTITCLLILPY FGWEILGGLPKSIGRKQOPLVYSS
6887	14938	A	7584	3	307	RFTEHHRITLGEKPYECKEGRKLSNNT ALTQHQRHITGENPFECKE*GKAFNQKIT LIQHQRVHTGEKPYECKASGK/AFS WCG RFILHQLHTQKTPVOA
6888	14939	A	7585	1	374	TGVTAAATQASWTPPPIDGPTTQEKLS*A NTAPGTEGEQQVHGEKKEDPAVPSAPP* YEESTSGEGRKAWAFPPAPTGEFHPNW AYVDPNSNSRYDNGVPATGDHDL*TTFS WDDQKVVRRVFVR
6889	14940	A	7586	1	512	
6890	14941	A	7587	1	399	FFFFNYITRYNKHYRYKMSKKRCHKIF QMIDMLNAASCAALGRHSRWVLGGAH FTPPGSAQAPAPWSHAMGARTLPPRFR SFGHSSATPKVSPSAAMPTEAQR/LPGC GPGSDFAGHPQC*FPQVQPTSC
6891	14942	A	7588	49	430	KWVKVDCVGDMLCA SIGRSEAFKTS FQFSLATSEVCGHSSATPKVSPSAAMPTE AQ/QTPPGCGPGSALLGIRSDHPKCRSP LRVPPPRSTSKVLAPFLASSDHEHTCS SQVRLPAAVRGAST
6892	14943	A	7589	467	1518	LANRCVPGHHWMQEMVRELWMWNV EEEEHEVGICTWGGQHC GCPAKSLPGPH PGGVSA PQSASQLMVKLLVWQKSVHKL RKVSATSSIAVYPCPGQSSGGAE SPAGP GLAGWSHLGGAALAEVQAAPVSQA AVS DASLGPESWQEGCRPGLTSQHGGRDG R*RGSRQGDQPSPSPGIPASSAAL*VGL VLVKWRPVIHAYDPVPEASPLSANFRN PGPAEAPGPMGKTKGRGSAGGA/GAGS AGLAPPPRSSQGAAGIGQ*PGLPEEAVHP CKGSCPASSLSAGTPRAPPHPCLGP RR QGPGCSHGVTGCRSLG*AGGVG*APRRT QREWRPRAAQEAFAFNMSII
6893	14944	A	759	1	1236	
6894	14945	A	7590	296	423	MVI*KL/PYKKSQGLGTFITDEFYQILKEE LISILLTLFQKIQKE*VTYKKSQGLGTFITD EFYQILKEELISILLTLFQKIQKE
6895	14946	A	7591	3	167	VYTKILRADRDMLTGYPCCSTGLLTADD ***DNTLEV/IALRGGFPYLEGLDLSPK

6896	14947	A	7592	19	406	FLQELGGQSLSHYVGGRAFPPAPGHP PVQSLQRPCVPTQOLLTPEFWCPAL/RQ Q*GHRQGTGVPVTPGPPKQWQQGPP QKEWQMRPKAFGHHPGGLQSLGGAPR R/WNRDTYQAGPRQCGGALM
6897	14948	A	7593	2	3532	
6898	14949	A	7594	3	300	KGPWKQENVEAASMVIAVPEPFGGAIH GQESITYHNGDKYLAIAAPPIKQSTVCHN NRVD*W/PQDITLGDMEGRIFTALQKNP TEKKIPQALQQAN
6899	14950	B	7595	1	819	MARGSAQLVLGRGLHDWOLGSHSAP GMLGOVALAGRTELAVPSLDTPTGGGEQ RASDLRTLSSSHESDHTVRAAHSPLPAE ALTRSLPCLQNVAVHRLYKCCQDFGGD SIAVGTWPYPMVWIPVWIPVWIPV WMEHTVLHLPLVCGHVGGSHLSAPVNN VCGNVAEPALCGTKASKPLTPPPIRS KAKFLGGSVCLGRHNKLSQTRWLKQQT FISHDPGGWKSNIKLTRPAQDLLMSVCM NCNTHGSEDMOVISHIKIRKPK*
6900	14951	A	7596	2	3235	SPASPAGRSAAGSASPSGSPHSWCTV GRSSCWSSPSP*ASSGSGTPTQPGRCSL G*MRRRPAGGAQAFQLKGKKWRRFG W*PRWEAGCFQGEW*GATDSRTASNQ GPPHLQHLHINPPARQPPAFNRVVKQAP WRPQARAGAPGKPPDQDAHQVRLQNG HLGAQTQEEVAVTLGWPPVPLVGLRL LCGTAPCAGSARSARGELADGGDSVE PPDGIPLDG/EQSGSGMSGALPOSSFLPC RRCRP
6901	14952	A	7597	2	1065	HMILCVENSKDSTKKNLDDLNEFSKVA GYRINIQKSMAILFTNNLAEKSRKQCP /TDNIKHLRIHLTKMKVHQYSLHTENH KTLMKYIEEDTNK*NDIPCS*IGRINRVK VSILPKAIYRFNAIPKISSAFFTEIEKIQF LWIHKRSQTKAILRKKNPGGHLNPNLNY YKTRVIKTIQYWHKRYTQ/QK*PEINPN MYG**IFDKSTKTKT/WEKGSFPK/WC WDF/TKRMRKLGYPYITPYTKINPKWKD LNVRT*SHKSRKENIRGKAPWTLGFGQC FLGYHTKTSYKKSNNK*MKLYQSKKLL HRKTINKMKRQCTDKEKIFANHISGKV LIFRI*EELIQLNS
6902	14953	A	7598	3	333	TLLPEIQAYTQEQWLGSPPEATAAERL QQESAGPGLQMNGLVLGAWVCLP/SS RPPAEPSTGAQSWVGG*EGPGCGCKVM VTGGSLVVLAWTAESEISSHTCVLRVS
6903	14954	A	7599	252	684	HLFROLFLEVLMSLQSPCLVAHSASWC TAPVTADAPSLWRALALW/LWAHQGP GTGWVPLSLRRRSASRLAASPEPNPSP NIH*SPORPVCSRGPSPGATCPLGLPRTSP GATRPGVPVPLSPRSGIAAAPGLAPAST PP
6904	14955	A	76	189	442	KTMRSIRSFANDDRHVMVKHSTIYSPSE ELEAVQNMVSTVECALKHVSDWLDET KGTKEGETEVKKDEAGENYSKDN* R TL
6905	14956	A	760	55	792	GRAGACSLIDTAMSEIESSDVIRLIMQYL KENS/LHRA/LATLQEEITVSLNTVDSIESF VAIELKSGHWDVTLQAIQSLKLPDKTLID LYEQVVLIELRL/ENLGAARSLFETRPDP MIKILKQTOQERYIHLEN/LARSYDFPRE AYPDGSSKEKRRALALQALAGEVSVVPP SRLMAL/LQALKWQQHQGLLPPGMGTD LFRQKAAVKDVEEEKFPTQLSRHIKFGQ KSHVECAPRAEFVQRRSN

6906	14957	A	7600	156	888	FRSSVSPGSGPPFSVSVTSGCSPS**HSGR PGVLVLKLPQGS*ASLPPAFPGGSDVAA GRGLSSAADCSLTGLGTLATPVFLTSN LKLQESVPK*LNSASS/PGVPRP*LQMH RLCGGPRSLAVVGTGPRGARNWLASAFS/ VGGGQLLGLQHPLQKIPPSRNH*SPQR VCWKAGRRKTKPRVDLQALETCPLGLP RTSPGATRPGVSPPLSPRSGIAAAPGLA PASTPLSPGPTPLPP
6907	14958	A	7601	231	457	QWLSLLPLGLGEDTKSLRANTSNNLEJIS QATIWEEGGPTSSSLWRPFNPGSPNTNRN PKLMPAVQPPHPSG*TPSVTWLHISWR WSP*QGSASLPLPLPWNSTCYPTNKKE TKTQSALSTPSTNCNQPERRPVCLPVV PPTSCSSTDREPPAWAHSTDPSCDGTAK VPSSAGSKLGRKHHPRAAVGSGLASSHN LKAMGEEPTLVTALRGSKVTTV/SETTR PRKKLSTDQYT*APPTGSHPKASTPKIRC CVSPFSRCYEEIPETG*LIKERGLIDSGFH MAGEPSGNLQFWRKAKEKQAFSSQSGR TE*VPAGEMLDTYKTRSHETHISLSRQH GENHPYDPTSTWSHP*HVGMGTTQGEI WVGTSQQTSLTYSP*NQTKVSNK*RP PYGRRDQPLPFCGGLSTSLVPQQTGTFS SCQCSRFIFVAEHQ
6908	14959	A	7602	2	289	LACYSPFFGGP/SSPFRAGGSNPPGPPG LTPFPKK/AKLL/RPSSSPPLPPLGRVG PGDSFYPGGEGFT*PRVPT*NWGFPFPPR GTKKLP
6909	14960	A	7603	3	805	DRVSLLLPRLECNAGISPHCNFRPSSH SLASASRVAGITGVCHHA*LFVFLVEME FHHAGQAGLELLTSGDPSPWSPKV/YRI TRHGATATWPIYKFNYPTRPS*NSLSLK RTS*IQMPAL*MERLQFVCP/SLAEDLT F*EKQDSKFTSQNRN*AFSRRS*GMLEK D*KWTTSDIV*VFVLPKSHVEMLSVLE VGSSRRFLGHGGRSLMNGWVLSLW**V SSYISSCESWF*KESSVFLTLLLPWPC DMPAPPLRLPP
6910	14961	A	7604	75	484	EIQVLVSLKTLNFKKIEIHSILSDHSGI KLEINSKGLQNHANTWKLNNLLNEH WVKNKIKMEIKT/FELNDNNGTAYQNL WDTAKAVLRGKFTALNAYIKKYERAQT DNLRSHLKELEKQQT/KPKSSRRKKK
6911	14962	A	7605	3	1105	
6912	14963	A	7606	802	1204	VLEVLTAVRQEIKGIGQKEEVKLLL FADDMMIYLENPKDSSKLLGLMNEPSR VSGYKINVHKSVALLYTNSDQAEANQKN SAPFTVV/SKKK*LND*IKYLGHLTKVEK DLYKENYKTLKESIDDISK
6913	14964	A	7607	3	419	RVECVMGLEYDRSAAASNTTITVVVTHI QALSHEQ/SAAYTSFNKHEFSRIHLL GHKLGLNH*NVGIM/PN/IFSNPRITLFI NTRSKTEKSTNLWKLNNILLNSQQSREE IPREKENT*NEENAAAQHLDAKAA
6914	14965	A	7608	1	341	RMGTCVNPRLSGKGFGRPGGKKPOSSP LKS/SPKMALMGNGGAPPPFFFLFFNF RFQPKKSSSAPIFFFLKKGL*INFGPPREP GGFNQKQPPSAPGFEF/WNPQGP
6915	14966	A	7609	1	409	
6916	14967	A	761	85	379	KKPKTKKRTGPVRQNVVRGRLSPGRA PAEGPQGGSTESPILLVGRCLLGLREP VPPAAYGRFLRDYMNISIQKLEKQRPQ* GLPSLTGAELIEH

6917	14968	A	7610	3	644	GDQRDLISNNEQLPMLG/ERPGAPESQRP AQPSRDRTRPPLPSFKIASPMSCLKKG*KA ITPMLPLPQSPKTPKPYVSKMRMATPLIM QALPM/DALPOGPMQNAKYVGNMTED HVMHILL/TVLTKC/QEEVSHIPAVHPGSF RP/KCDENGNYLPLOCYGS/TGYCWCVF PNGTEVPNT/KSRGHHNCSAPSPSISHLY LIP*DPGA/WLFRHPQDQKPSRNSR
6918	14969	A	7611	1	1032	MHRRRSRSCREDQKPVMDQDRLISNN EQLPMLGRRPGAPESKSRGALYTGTGSIL VTLLLAGQATTAYFLYQQQGRLDKLT TSQNLQLENRMKLPQAS/KPVSKMRM ATPLLMQALPMGALPQGPMPQNAKYG NMTEHVMHLLQNAAD/PLKVYPPLKGSF PENLRHL/KNTMETID/WKVFEISWMIHH WL/LFEMSQPLPCSKSPLDAPPKVLTKC QEEVSHIPAVHPGSF/RGPKCGRGGTNY LAIPVAYWGASATC/WCCLFPNG/TREVP NTRSRGHHN/CSESLGTWKDPSFLGLGV LTKQQLGPVPIVRASRGGLOHPASPTQL QLSCSLQPPAPPPSPTL
6919	14970	A	7612	59	321	LSGSPVLATSPQVPLSRGKTGGPDPA/ SALPAPTSPISPPPSRSLRRPAPSGCP WGCPGSLQAPGLHWQDYRPGVRVRL PG
6920	14971	A	7613	1	464	DEEDGENAHPYRNSDPVIGTHTEKVS/LK ASDSMDLSYSGSSSGITSCDGTNSNRD SFRLLDDDDPYSGPYCDQATLHDTFTSP YDTS/LKI*KGDIIDICKTPMRMTGMV NNKVG/NFQFIYVDVISDEEAAPMTKAN RRSISILSKTLQ
6921	14972	A	7614	1	2119	L/SLFLDLNENDFLSNNIHTYQGGTLQGST YQAIKSGSDPVESMGTLKRLQLVWTK KARVQNLDEVKPTLNLQDEDDTLISCL KLTKSREKVNVSSTRKEEMEIRLDLTL SASLGRSSTLNNCNLEDKLAWYEGEAY MWHHWKPPENPLWTC/LDQIAQVGPW DHCSSCIRHTRLKSSCSMDLLHSWVTL CRQESSNITCWT/LREKRGDLFCILFVCF IDRKTPRKPSDQQAELIKGRKQKVHSL GVVRIQNAQEKA/QCFREGETSKTKEYE SVIKFYPKQRSSSFGNDFRFRNNSLSPD DSTEAEHGDPTNGSGEQSKTSNKEAVW GKKMRAISWTMRKKWGKKYIKALSEE KDEEDGENAHPYRNSDPVIGTHTEKVS/L KASDSMDLSYSGSSSGITSCDGTNSNR DSFRLLDDDPYSGPFCGRARVHTDFTPS PYDTS/LKIKVIGEQQCLVTKWGDIIDIC KTPMGWMTGMLNNKVG/NFKFIYVDVIS EEEEAPKKIKANRRSNSKSKTLQEFLE RIHLQYTTSTLLNGYE/TLEDLKDIKESH LIJLNIENPDDRRLLSAAENFLEEEIQE QENEP/PLSSDISLNSQLDDCPRDSG CYISSGNSDNGKEDLESENLSMILLTDP LQLSPQLPQRGAGNINRKTGFS/LGHGK LNKEQRKDKKRLIQGWEVAELGPSAAF G
6922	14973	A	7615	3	452	
6923	14974	A	7616	1	475	PDSSGPHRLRENPPMVAVSCPTKTNVKG PPGGKVGAAHAAQYQSEALGRJFLSFT TKTYFPHFDLISHGSAQV*GATGKKVAD ALTNVAHVDDMPNVAVRP*SLHAHAK LRVDPVNFKLLSHCLLG*PWP/ALHPRPS FIPCGGTPSLEQSSWASC
6924	14975	A	7617	26	461	WESCGPHQRTG*AGSSRCGWRRRAAGP GCHQPRAGVPGRTCRAGRSPAADAAGR CWLGGPPPGCGPRLR*CAHPPAGSA RVWSVVAAGASTGLGRLWGRWSPSCH RCQSPGCOAGRRGTARLSWFLSRRTSCR

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6925	14976	A	7618	3	419	LLDPSDGKSCGPTSKDCRRRIRQYSVEA LPRPALPHTTRGSGRKEARGEQSGGAGA PADPDKLEAAVAVGEDVQAPGCHQPR AGVPGKTCRAGRSPATRTDGTAGQR AGPATVPIPPGPGWGPCTCRRCRTLARR S
6926	14977	A	7619	2	227	AGVFCDAGLTFTSSSGQQAQRAELLC QPAALRRRSEPFVHLLDISGEYLLGTFF YCVENLRDGPVAVADAV
6927	14978	A	762	209	393	WAVYCTSFMLS*CYKI*CKPALSLLGHT TEVKTYVYTNRCCEMSTALLIVAKN*K HSCC
6928	14979	A	7620	11	394	SEFCDDWVADLVQKYEQPS/HEALTS STEARDVDMGSSILMGIFFSADLKLQDE WKVNLNTLDSITDKSEIFVHGDLEKWD IFQVMISRSTTDLKIGMKLQEFFTQQFD TSTRALSTWGPVPYL
6929	14980	A	7621	3	185	FFFFF/CPILAAQARVLCWHSPPQPS PW/VSSNPAS/ASQAAGTAGMCHRAWLL KTEVGLED
6930	14981	A	7622	1543	1744	FKSKALAFILSPFFFFFLKQSLSVTQAG VQWVPDSLQPLPRFKRFSCLSPSSWD YRCVQPCFAN
6931	14982	A	7623	1	259	SENQEQEEVITVRVYDPRVQNEGSWSY VDYKIFLHTNSKAFTAKTSCVRRRYREF VWLRKQLQRYAGLVVPSELPGMPTLYG LY
6932	14983	A	7624	3	265	CCHPRLACSGMILAYCQSR/LFGSKRFP CLSLPSSWDYKQPCHHTRILVFLVET/GF HHVGGTGLE/MLRNSGDPPTLASQKCW DYKA
6933	14984	A	7625	2	375	RAALTPTSTYKAGPSPK/GAPHSTGVTSA SPKEAPTTPAVTPPSPEKGATPAKGGTP TSPPVTPSSLKDSPTSPASVCTCKMGATVP QASKGLPAKKGPTALKEVLVAPAPESTPI ITAPTRKGPQ
6934	14985	A	7626	2	425	IFPPPKRGFFSKKGGVFNPPASSRFFAR PPPGVGPPPVQSSSSSPFYFASSSSYSS SSNFPS/HSSSSSSSSSSSPRQQHPHLYPHC RLGWAERAW/PPGTPLYHYKTQRKQGT SASPRGTTCTHTPQSPPLPGHRCWP
6935	14986	A	7627	3	253	
6936	14987	A	7628	48	557	AGLQKARLAPGTPLYHYKTQRKQGTSA SPGRGTTVTQRGHYQONAGRITLQPPPC GQOTS GH*GPGWPYESQRLWKTPQRS* Q*FLHPPPR/HCHTPACGAASAPCVGRY CPRCSCAPARASLAALTRETAPLLPSPS WAPGDPTLEGWPGNGSPLPPRGM*PHL YPHCRLGWAKRAWPRGHHCITIKPRGN KEQVQVRGEGPLSRKEVTVIKTLVVIHF SHHLAASKPAIEGLDGLMSLRGYGKLIH KDLDNDFCILLALPHSCLRSSFCITMCR ALLPEMLMCSCLSLISGRSDSGNSSSSFS FLGSRPHVGGGLAREWFTTPTGEDVGTGI EDGL

6937	14988	B	7629	122	1028	MENGQSTAAKGLPLPTFEQOEALQKA KKYAMEQSIKSVLVKQTHAQOQQLTNL QMAAVTMGFGDPLSPLQSMAAQROGA LAIMCRVYVGSYIELGEDTIRQAFAPFG PIKSIDMSWDSVTMKHKGFAVEVEVPE AAQLAL EQMNSV MLGGRNIKVGRPSNI GQAQPIIDQLAEARAFNRIVYASVHQD LSDDDIKSVFEAFGKIKSCTLARDPTTGK HKGVGFIEYEKAQSSQDAVSSMNLFDLG GQYLRVGKAVTPPMLLTATPGGLPPA AAVAAAAATAKITAEAVAGA AVLX*
6938	14989	A	763	348	638	VQCKPWGMGRAVCPAPGVRLEERPVC GTPCLCLHPARMTPAWGSIHCLPSHGCG FCLPVNAPS WLQQPSFWARALLQ*WVV LGAEGHLHPTLRTTVG
6939	14990	A	7630	3	407	KSMTEAEQQQLDDHFLFDKPVSPLLA SGMARDWPDARGI/WIETLFKSKDYEFM WNPHLYILTCPSNLGTGLRAGVHIKHE KFSEVLKRLKIQKRGTVGGVDTAAVGGV FDVSNADRLGFSEVELVQMVVDGVN
6940	14991	A	7631	1	170	
6941	14992	A	7632	1	411	SYEVFKELFDPIISDRHGGYKPTDKHKTD LNPNLKGGDDLDPNYVLSRVRTGRSIK GYTLPPHCSRGERRAVEKLSVEALNSLT GEFGKYYPILKSMTEKEQQQLDDHFLF DKVPSPLLASGMARDWPDARGI
6942	14993	A	7633	2	1250	LPTDGAPPPPGRPAAAMPFSNSHNAL KLRFPAEDEFPLSAHNHNMAKVLTPEL YAE LRAKSTPSGFTLDDVIQTGVDPNGH PYIMTVGCVAGDEESYEVFKDLDFDPIID RDGGYKPSDEHKTDLDPDNLQGGDDLD PNYVLSRVRTGRSIRGCLPPHCSRGE GRAIEKLAVEALSSLDGDLAGRYAL KSMTEAEQQQLDDHFLFDKPVSPLLG LGHGRRNWPDARGIWHNDNKTLFVWV NEEDHLRVISMQKGGNMKEVFTRFCT GLTQIETLFKSKDYEFMWNPFHWATSL PCHCNLGTGLRA/GLHIKLPNLQGGMR KFSEVLKPAEELSKSRPPGGVEHGLR WAGVDFVFTLNRPGPSQSVELVQMV VDGVKLLNEMEQRL EQQAIDDLHAW PKK
6943	14994	A	7634	1	175	EQLPYFVTFISMATT/EGRRGFSLSVESA CSNYATTVQVKVVRNRMHISPRALGLTH HN
6944	14995	A	7635	1	83	
6945	14996	A	7636	61	2028	
6946	14997	A	7638	517	1038	NKRIYNCMMISSRRVITSLPIVLLQIFDCP RLKFSBEPQRLTALLPPDPVIVNHVSEV APACFSQGMISPLPSLPLPLPSLPP CWICFSPGALGPVWGHRRGHEGLDFPGSV DPSDQKKTACYDIDVEVEEPLKGQMSSE LSTANQOEISALDSKVGPFRAGVGH
6947	14998	A	7639	154	1594	LSRCRTLPSMTPLGQHPTTVQVRPGMS GARMPHQGRPWAPRAPRTWAAPPCDPA WPPRDGARPPQASSAPARQSQASQGOQ EPTAPARSRSAKRKRMADKILPQRIREL PESQAYMDLAFERKLDQITMRKGVDIQ EALKRPMKQKRKLRLYISITFNPAKSDA EDSDGSIASWELRVEGKLDDPSKQKRK FSSFFKSLVIELDKDLYGPDNHLVEWHR TPITQETDGFQVKRPGDLSVRCYITLLM LDYQPPQFKLDPRLARLLGLHTQSRSAIV QALWQYYKTNRLQSDHDKYBTMGDK YFPQNPDCPRLKFT*IPQRVTA VLMPP DPVIVNHVISVDSFQKKTACYDIDVEV EPIK/GGQMSSFLSTA/NNQOEISALDS KIHTIESINQLKIQ/RDFMFLSFLRRPHKL CARTWLRSQBPGTSR*LTDAVGNPEER

						RAVEFYHQPSQEAVSRYFYCKIQASA GKEAW
6948	14999	A	764	746	1280	ISHMELQFGAIFAILPRGFPHHLHNINFT WASCCPHASQPGRQSGSSWNEYHSFRE FNQEKIWRAGSESAPLPLAGAAACPW RGGASNPICVTGASAAAGGRAGGSGEET GSAPGAACSS*ESYEAFSGFSSSPGNSV *TFSTSTYTA SPPTSPSPSPSPPCVYYS SSSSL
6949	15000	A	7640	256	426	HPICPQTTKAFLPRMELQNGHIVCLNSV LALSIPAIDYCTSEAADFGFMESLT
6950	15001	A	7641	1	985	RIARPFGEFRPLPGSAARRMAWKRLGALV MPLQMIYLVVKA AVGLVLP AKLRDLS RENVLTGGRGIGRQLAREFAERGARKI VLWGRTEKCLKETTEIIRQMGTECHYF ICDVGNRDVEVYQAKAAREKVGDIITLV KNAAVVHMGKSLMD/SDDDAFLKAQ/ NINTLG/QFWNHQGPFSGLKQWQONGP H/LVCLQLPLLGIVLA/LPGAIDYCTSKA SAFAFMESLDPG/VLAGTCPGV/SATTVL ALSTTSTEMPQGH*EFRFPLNPLPK/PET VARK/TQVEAVQLNQALLLPWTMHAL VILKSILPOAALEHHIKLKYTNLE
6951	15002	A	7642	1	376	KQAASNQLDSLMLG/DSPHVEERGIILC EPCGVQLFYDVLVHYQDQWDLRPGTAF FRVTGIPRLHSQAQETWPEL/PLRRVRR QENLSSGYLDITLETANGPTFCLPARPF NNMTATYNQLSRS
6952	15003	A	7643	1	2753	MKEFSSTAQNGTEVIHTGLQRHERHHI GDFCFQEMEKDIHDFEFQWKEDERNISIE APMTEIKLTGSTNRHMQRHAQNKPIKD QLGSSFSHSLPELHMFOTEGIGNQVEK SINSASLVSTSRISCRPKTHISKNYGNF LNSSLTKQOEVMHREKSFOCNESGKAF NYSSVLRRKHQIHLGAKQYKCDVCGKVF NOKRYLACHRRCHTGGKPYKCNDCGKT FSQELTLCRHRLHTGEKHYKCSBCKGT FS
6953	15004	A	7644	1	149	DSFGASRLRIHAENTYFTLRAYFAESRCI EALDELASLQVTMHQAQKHT
6954	15005	A	7645	81	331	KGARFLLLLYLDAFLFNLDLFFLEYP YFLLCFCSLLFFFCFCSLYFFVCRPSS LFSSSILILFLFLVRLFLFLCLFL
6955	15006	A	7646	701	1114	ATRHSMLSCHYTYIYIKIHTHTHFIYIT YTYIHTIYTYTYCIHTIHIYIYIHTH FFFFFFFFFETESRSVTQAGVQWHDLSLQ AASWGHA/DSPAQAGTGAHHA Q/LIFFFVFLVETGPHRASQDS
6956	15007	A	7647	1	207	RSVFRERGLSAG/SLVERLYRVRRDRF ERII.KMARKAVETHVLSPHLVSDYRDS IIPSESLALPC
6957	15008	C	7648	244	432	
6958	15009	A	7649	898	1144	IFQLLLMEGPANIIGNTGSSNTGRSNTGP SNQSSYLSLFLFCFFETESRSRGPGLGV QWAWISGSLQALPPGSTPSCLS

6959	15010	A	765	1	493	KGPVSKPEPRSGMNRNSALRVNVRPLRPC PQEGGLPLQSCVPLGLCRVPSRGKQPK HL.LPTG**AIAGLPNLHVIDPLKLSFOL GVVQGPPLGRGQSQGSLVTOAFMGG GPRKGLPIDRPEC*GACTLGPWAAPVPLS SKGPPPTVGPRLSDSFAR
6960	15011	A	7650	1	476	ATRELVTSSGLRRKTGLWARPREKPTA WHLASLSRDEIVRNQEPQPGPREGS LGHVARTAPFGQGGQHLRSAGHSRPG RRFKATLWASEEHPLSLGDQVTPIDLM AISNAHFAKLRDFTLRLPPGNFVKIEPL FHVLNARIHLSGNLCGC
6961	15012	A	7651	1	1071	
6962	15013	A	7652	2	240	SCSIGSFQFG/YYPGVINAPETIIKKFINK/S LTAKANAPPSEVILLTNLWSLSVAIFSRRG YESASLFPSSLFVN/RFGQVLT
6963	15014	A	7653	2	391	QTGRGMWCSLVLFLLPATPRKQSEPK TTDAAAPGTADTAGPGTMDTAVPRKAE TAVPGKRNTAVPGTADPASPGTADTAEP MRTTTPTVLASWPSLTQSTVKAPSPRLLP AFSPGSCSATSTCSRSP
6964	15015	A	7654	1	200	
6965	15016	A	7655	3	416	CLFPVQLLLDHGDADPNQDGLGNTPLIL AACTNHVIVITTLRGGSGFFPLSSFSFSP SPPECSQQLVPAGARVDALDRAORTPLIH LAESKLNILLEGHAQCLEAVRLEEKHHH MLKEHLELLGRHYQLINAWMTLD
6966	15017	A	7656	1	395	KVQSRCSKKNILRASHSAVDITKVARR PUMASFTALTSMDKAFITVLEMTPVLGTE INRYGMARGLVQVYVSDDIVTSFSL LYEYFIRSFHLSLFIYLSLRSFFKLRESF FCFSSIFLSSTFALS
6967	15018	A	7657	210	441	LNPILYSPGRDHRVQNFHPLRLCIQKLF KSKCFIYELPAHRKKLVLEPLTDDELE PDFVRQVTESMYSIFSHSMI
6968	15019	A	7658	8	399	RVGVAGPAPWWLVRVSLGGRDFHTPISV TKVAERGKAEDADLRPGDIIVANGESA GMLHAEAQSKIRQSPSPRLQLDRSQAT SPGQTNGDSSLEVLATRFQGSVRTYTES QSSLRSSYSPTSLSRA
6969	15020	A	7659	2	260	WEPWPWPGVVLGLPLPPSPSSPLPIPP PRGCSLGASSA/WTAWVSSPKPVRFQ PPPGGEGSNENHRRKWHPPFSVMLKSCY
6970	15021	C	766	82	201	MKSKHFINLSRQHKNYNLIYTFIRSRDF KTAIFLSILS*
6971	15022	A	7660	2	442	PRVRVYFRQGEHAYVEMARKNKIYSI NPKKQPHWKMLREQELMKIVGKYEY GLPTLCCLKLAFLDPDTGKLTGGSFTMK YHDMPDVIDFLVLRQQFDDAKYRWNI GKGE/CSDRHRSVIDDAWWFGTIESQEPL QLEYPDLSLQ
6972	15023	A	7661	965	1232	TGVQWPDGLSLQPLPEFKQFCSLLLR GWDERRPLQLADFCIFSRDGGYCYVG QAGLKLLTSN/DLPASASQAGITGVSLC TOPKSS
6973	15024	B	7662	111	374	MVAAATGSEILLWALQAEAGGSEIGDSG NWIEIAYGTSLLGGVRVIVQHPETVSGSP QLLQTFTVHRSPVTKIMLWEKHLISVCA DNNH*
6974	15025	A	7663	387	545	

6975	15026	B	7664	181	4716	MGRPAPAVPRPARPAPPAWTAALPAG RPRGDPGFRAFLCPLICHNGGVCKPDR CLCPDPFAGKFCQLHSSGARPPAIPGL TRSVYTMPLANHRDDEHGVAMSVSVHV EHPQEAASVVHVERVSGPWEEADA VARAEAAARAEAAAPYTVLAQASPRE GYSDASFGFYCFRELRGGEASPLPGLR TQEVCCRAGLAWGVHDCQLCSERLGN SERVASPDGCPCTGFERVNGSCEDVDEC ATGGRCO
6976	15027	A	7665	209	1288	EEKNERDRDTERKCEARTSKTSQKRET KETTOGKTKQKRKKEKTTDKTKRKKR TSKTENKKRKQEKEDREDESTRKRKE GERERRGNARRKKKGHEHSKRGERRN NSKGEGEEERGRKTKAKTRTRQATNT DSKNEKGRKKGQTRARRPAETGRRRR KRKRQRKAGETTPGETGRWCASVRSVD GSPITTAFTVLECEGSRRLGSRPRYLLN CQANGSLAMWDLTTAMWDGFGQAPAGG LTEQELMEQLEHCELAFFR/CASSSLNG AVSPSPSRISLT/NASTQASSNTSFVWPT VGSPKPARLKRARRGWGEALWKAAR NWCGVGQTSDGHPHQAPWPSKRSRHS HTPQE
6977	15028	A	7666	3	1703	GGRRAAALGVAIGAAGAAAAWTGP ARRASPRALHPGRVPRALPWAADRLPLY PDLRAPORHQRGRRSRGGPGGTRLPR LVPSAAEAPQPSGASAAARTAQPLSDG ATRCPPTLAMHGCWAECWMRKPLPHFQ VRFYLVEGQPEEPGMVRLVCGHHNWIA VAYTQFLVCYRLKEASGWQLVSSPRLD WPIERLALHARVHGGALGEHDKMVA ATGSEILLWALQAEAGGSEIGVFHGV VEALFFVGNQLIATSHTRIGVWNAVTK HWQVQEVQPTTSYDAAGSFLLCNNGS IYYVDVQKFLMRKMDNLLVSELVRDP AEDGVTALSVYLTPTKSDSGNWIEIAYG TSSGGVRVIVQHPETVSGGPQLFQFTTV HRISPVTKIMLSEKHLISVCADNNHVRT WSVTRFRGMISTQPSGPLASFKILALES ADGHGCSAGNDIGPYGERDDQQVFIQ KVVPASQLFVRLSSTGQRCVCSVRSDG SPTTAFTVLECEGSRRLGSRPRYLLTGQ ANGSLAMWDLTTAMDGLGRSPAGGLT EQELMEQLEHCELAFF
6978	15029	A	7667	8	566	TLVTVGNQSGREGLAFLVSCPEGRADCA SESACSSDLEARSSGSEGTADTGDLS PGHIGASAPSVREARQTVPLTVRLHTQ SVSECITEDGRTVAVGDIVWGHR*GRT CWPGASDLCSGTL*AFWPAACRAHWAR WSAWCEVPRGPAVCSGRGW*AQRLLP LSVFVPTTQRMALAAHEAV
6979	15030	A	7668	2	610	SPEILVDPRLRPRVRLAFLVSLVGRADC ASESACSSDLEARSSGSEGTADTGDLL SPGHGASAPSVREARQTVPLTVRLHT QSVSECITEDGRTVAVGDIVWGKIHGFP WWPARVLDISL/WPEGGRRAVLARUKV SWIGSPITTSFLSISLSPSEFFKLFRNRK KKGMYRKAITEAANAARHVAPEIRELLT QFET
6980	15031	A	7669	3	392	ADAAPVTRCVTSGHSLPISGHAAESELFH R/P/AGIHLPSRRNVLPARGASSTRARPLE RPATVPVAPSSRAARSRHIDPLIQSSPT PPGPTGSAAVYVAVPTPNSSSPGAPGRFA GAMLYHSWVSEITE
6981	15032	A	767	88	372	QGMDSKRRGVKLNDDGQFMPVLFGFTY APS*VPRSKALEVTKLAEFGFRRIDSGH LYTNEEQAGLAINMLADGCVKREDIFY TSELWATFY*PE

6982	15033	A	7670	5	393	GFRNPDRSHPHSTRRRRAFLRRWEKD PGRGKGRAPEAQORDASPTTFRLEG/ PREHLRQWERLPPKSPWKEVFAVVSAN KACSAISGPVAPVETAAPSPPS/TVRG RSGPRTKGARPNRCCDD
6983	15034	A	7671	2	399	ARTNTGGRPYCFIRMSNLHRTQOQYN NRPPLSTNIILSDIQTETKLPPYQISMCE LGSAGVTSAFSADCKGAEKISSGHQRL EPATLSGIAGFILSLWGALNLPGFHAI QRLLOREGDDFNSFIALF
6984	15035	C	7672	151	339	MSTFPIHISPKLRGDDVGRXLXWRWPL RGFCATVRWCPGAAGWCAXPVRAESA FXRPAKS*
6985	15036	A	7673	19	443	SVRWNSCRAEAPQWPAFAAAAHSPH LSLGEGLGKILINSLFLTDLYSPEYGP SQRIKPPVQVYILVFLIDDKLE*Y*YTQST CCNFHYASQSQWPAINYIDSKFEDYLN ESRVNRQCMFQGNRVQCGCLYFIAPSGH
6986	15037	A	7674	152	532	QALRANRPAPVAEGATDRTVAQKLLNG QRQLQRPPTRLI*AWVQSKVLKIDGG VQLLLTIVDTPRFGDAVDNSNCQWPVN YIDIKFEDYLNESRVNRQCMFQGNRVQ* *LYFIAPSGHGLHN
6987	15038	A	7675	1	627	GSARSAAEERSVNSSTMVAQKNLEG YVGFANLPNQVYRKSVKRGFEFTLMVV GESGLGKSTLINSFLTDLYSPEYGP RIKKTVOVEQCGVALIKEGGVHLLTIVD TPGPGDAVDNSNCWQPVYIDYIDSKFE DYLNAESRVTRRQMPDNVQCCLYFIA PSGHGLKPLDIEFMKRLHEKVNIPLIAK ADTLTPEEQQFK
6988	15039	A	7676	2	371	VLELEERALLREARLGRASSGGMQATP ATEGLARPQAPSSSAFRCPYCKGKFRTS AERERHLHLHRPWKCGCLCSFGSSQEEE LLHHTCQVCGSQFTQSFWLKGHMRKH KASFDHACPVCGR
6989	15040	A	7677	44	983	RGSMEGSRPRAPSGLHAPSFAFDGELD LQRYSNQPAVSAAGSLMGAVSVSESRA GERRFPVCGKRFRFNSILALHRAHPG AQAFQCPHCGHRAAQALLRSHLRTHQ PERPRSPAARLLELEERALLREAPTGES PKLRGHAGHPLPLMVW/PRQAPSSSAF RCPYCKGKFRTRLERERHLHLHRPWK CGCLCSFGSSQEEELLHLSLTAHGAAPERPL AATSVAPPQPPQPPQPEPRSVQPEP EPEPEREATPTPAAPEEPPAPPEFRQ VCGQSFTQSFWLKGHMRKHKASFDHA CPVCGR
6990	15041	A	7678	1	582	GNAGLSSLTEGVLDLFAVKAVYMGHPGI DIHTVCVQNKLSGMSFLSETGVTLLYGLQ TTDNRLLHFVAPKHTAKMLFSGLLELTR AVRKMRFQPDQRRQWLKQVYSLYQE DGRYEGPTLAHAEVLFGRWRWSARNPS PGTSAKNAEKNMQNNLTGISTIKKKK KILMRGESGEVTDDEMATRKAMHKEC R
6991	15042	A	7679	2	428	SVGSESDSSKEGSPMTRSGPLRRSRAPV G/PESQGNLTIVRVVIHDLQOTKIRFNP DATVWVAKQRLCTLQSLKDVLNLYGL FQFASNGRDGKFLDEERLLREYPQPVGE GVPSLEFRYKKRVYKQASLDEKQLAKL HTK
6992	15043	A	768	177	311	WFQNPCCYYLFFLETESLSPRLERSGTVS AHCSL*LPSSSDSPAS
6993	15044	A	7680	1	248	VIFLVNSGSEANELAMLMARAHSNNIDII SP/RTMCPDVFQPGWGGSHCRDSPQTIR KCSCAPGPTGGGQGWVSGVSGWKGHE
6994	15045	A	7681	1	501	

6995	15046	C	7682	60	380	
6996	15047	A	7683	3	649	LSPSYFHSISFPHSLFLPLEGTVTRNRELW GLLQAMGVHHSRIPLAPPHILNLKVQQ DSEQLLEPLQASAMGVGLSGRNDNLE TFAETLVPGSIPFLGILEMHFPLSLGTSRT SVTKLSLHIKPRMPPCDFMPERYQVIFLV NSGSEANEUAMLARAHISNNIDNISFR GAYHGCSPYTLGLTNVGTYKMKLPGG TGCQPVSLIEIFLL
6997	15048	A	7684	27	211	FHIVQYFNFTVCLFVCLFETESTLSRLEG SGVISAHCNLTLPPGPNNSCASASRVAG TTQ
6998	15049	A	7685	1	310	RPRRRGDHREVKGGRGGKGGEGRPGQG QRWAVGKGGEGRPQGGQRWAVGKGGGE GRPGQGQRWAEKGGGEGRPQGGQRIGQ WGKGGEGRPQGGEGRGPGGKGGE
6999	15050	A	7686	2	320	KYVFTDISYSPHRRERFIVREPSGTLRKA SWEERDRMIQVYFPKEGRKILTPIFKEE NLRFEPDSTEYIKVHHKTYEDIGRKQKAY DIJLRSTRYFGWVWVWVFC
7000	15051	A	7687	22	1071	GVLRAWNGSVSGLESSPGTVACNSRYL ALSRWGCSSRRINSYGAESGSPETKKPT FMDEEVQRLVTKMTGLNLQKTFKPAIQ ELKPITYKLMTQAOALEATRAVEAAK VRLKMPVLEERVINDVLADGKDFWK GTETTKYVFTDISYCPHRRERFIVVREPS GTLRKASLEDRDRMIQVYFPKEGRKILP PIIFKEENLRTMYSQDRHVDVNLCLFAQ FEPDSTEYIKVHHKTYEDIDRKQKDYIJ RSTRYFGWVWVYVNNKKIDGLLIDQIQ RDLIDDATNLVQLYHVLHPDQGSQAQA KDQAAEGINLKVFAKTEAQKGAYIELT LQTYQEAISRHSAS
7001	15052	A	7688	2	383	FSAPAASEPLPFGSGPPSEPLPFGSGPPSPD LAFAPPPSEPLTFSGPPSPSEPLTFSGPP SDPLCFTAPPSEPVFSGFAPSRLPFG PTTSEPPNR/PGMPTQHPICLSKNTPLPE PTRLHP
7002	15053	A	7689	3	2484	PAIKIRRRVRDLQDPPQMAPEIQPPSH HFSPEQRAILLYEDITLVTLHRLGHPEPN HYTEASELLRYLQEAHFHVEPEEHQOTLQ RVRELEKPIFLCATVKQAKGHLGKDV GFSDFYCLLGIEQGVGVGSGPSGRHRO KAVVRHTPEEETHRTQVITQTLNPVWD ETFILEFEDITNASFHLMDWDLTVESVR QKLGEITDLHGLRRIFFKARKDKGQDDF LGNVVLRLQDLRCREDQWYPLEPRTES YPDRQGHLQGOVLVHKRRATSASRSQP SYTVHLHLQQLVSHVETQHEAGTS/W GRVAESQAATVFLIHAQOKLSDHFHS MAQWVAYSRLYQSLLEPSSCLLHPITSIE YQWIOGRILKAEQOEELAAFSLSLLITYGL SIJRRFRSVFPLSVSDSPARLQSLRLVLV QMCKMKAAGELCPNTAFLPQLVTEALQ TGTTEWFHLKQHQHQPWVQGIPEAGKA LILGLVQDVIGDLHQQQRTWDKIFHNELI SSTLKIHLFSMAFRLEQWLVAKRVQDHT TVVGDVVSPEMGESLQLYISLKELCQL RMSSEDRGVLLALDNFHRWFQPAIPSWL QKTYNEALARVQRAVQMDLVPILGELT KHSTSAVDLSTGFAQISHTARQLDWFDP EEAFMITVKFVEDTCRLALVYCSLIKVAR ARELFFRARRTKARAANMLCVVNDME QLRLVIGKLPALQAWAELBQRGVAVLE CQQLQNTLHAQLSGALAGLGHERTG VRKILAEQLEVGIAKHQKLVGVRESVLP EDAILPLMKFLEVELCYMNTNIVQENFS SLLTLWTHILTVLVEAA

7003	15054	A	769	193	363	IPLALSTGNGTLLFFF*DRVSLSPTECS GVISAHCNLCPLGSSYSALASQVAGI
7004	15055	A	7690	31	510	GDHASDKETITVINIYAPNIRACSKYKQT LTELKGEVDSNVITAIISILRFQQLPTI.IKT ESLRNRRNSSSSSSSSSSSSSSSLKKSLLP TKESIGPDGFTDFYQTFKEELK/PKSSSS SSSSSSSSSSSSSSSSSSSSSSPEKDATRE ENYRPISL
7005	15056	A	7691	2	189	TYHIDRIKDKSHMISIATEKAFDKIEHPF MIKALSQLEVVGMTNVIKAIYKKSMA ITQQ
7006	15057	A	7692	3	409	NTANRAARVSASIEDSPDNSETLPDDEF RNGENAKRFAIDIGGTLTKLAYYSTVQH KVAKGRAFDHSGKDKTERUTSRPMRVQF KKRALLDGTSLRRRKPTFKPAWTSSKTI STQRP/VEIQATGGGAYKVKDLI
7007	15058	A	7693	88	480	KEELYGDFEDELGT/DVHKGKSGPDTQN EDIEKQDEIDPDEKKSAKKKHLDKKRKL KEMLD AEYDEGESTYFDDLKGEMQKEA QMRLKNHRWYKILKSQDPIFSVGWR VHTILLYIEDHNGRQRLKY
7008	15059	A	7694	1	1068	MAANRDKDFHRRCPLELSQSEAVPQGLC RAERSSALAMLSGVSPPRRTQLRPCCKGTQ RRCRRGGEADSGGEAVGGGAAERSSAA ARRRGGRRRGGEAVGGGAAERSSAA ARRRRGGRRRGGEAGGGGAAEARR AAAAARRAAAAARRAAAAARRAA AARRIAESGGEAHSRGEAHSGGEAHS GAERRRPRLHSPALKTHPGQSSEGHVE YKLNHVEFEDQDEARVQYEGFRPGMY VRVEIENVPCFVQNFDPYPIILGGLGN SEGNVGHVQMLKKHLWYKKILKSQD PFISSVGRRRFQITPLYYIEDHNGRQRL KYTPQHMHCGAANFWGKI*Q*LAYCRD
7009	15060	A	7695	66	844	KEELYGDFEDELTDVHKGKSGPDTQN EDVEKKEEDPDEESAKKKHLDKKRKL LKEMFDVEYDEGESTYFDDLKGEMQKQ AQITAYRFSPTT*SC*LNHAEFEDQDDE ARVQYEGFRPGMYVCEIENVPCFV*N FDPYPIILGGLGNSEGNVGYVQVGPFA AYLVPEALWISPPSILPSPHPQMLKKH RWYKILKSQDPIFSVGWRRFQITPLCYI EDHNGRQRLKYTPQHVRHG/AAFWDKI CLQ*LAYC
7010	15061	A	7696	1	1177	LRMLGTRSALWACRGWQQQMHMAW LTEQPLGVLFEELYGDFEDELTDVHKG GKSGPDTQNEIDIEKEVKEIDPDEESA KKKHLDKKRKLKEMFDAEYDEGESTYF DDLKGEMQKKAQLNVHVEFEDQDDEAR VQYEGFRPGMYVRIEIVNVCVQNFDP PHYPIILGGLGNSEGNVGYVQMLKKIIR WYKILKSQDPIFSVGWRRFHTIPLYYIE DHNGRQRLKYTPQHMHCGAANFWGPI PQGTGFLAIQSVSGIMPDFRVAATGVVL DLDSIKIVKKLKTGFPYKFKNTSPKIG MFNSALEVAKFEGAVIRTVSGIRGQIKK ALRAPEGVFRASFEDKLLMSDIVL.MRI.S TCSIPA/FY/NPVTSC*TIKEKHLVRMRPR P
7011	15062	A	7697	163	371	KGTTKLVLKLSDFKSYFAIKVITVRN/W HKYKHIDQWNRIQNPENPHYQGMIK KRAKNQWKDGL

7012	15063	A	7698	270	1479	PGCAFSSSGTSRQLAPVLGYLGSROKHS LPDLPYDYGALPHINAQIMQLHHSKHH AAVYNLNVTEEKYQALAKGRFQAEK EKNVCTFN*GDVTAQIALQPALKFNG GGHINHSIFWNLSPNGGGEKPGWICYA PLSTTCTVGDVISWAL*QKIF*IHVI*HF TVIIGNLFCIGWFWDFFFNRLELEAKRD FGSFDKFKEKLTAASVGVQSGWGWL FNKQRGHLQIAACPNQDPLQGTGTYI*IG LSVVPVWKTSPLLKNVDSKVXGRKTVY QGDGHYVNHHPNVQVFWGRGAUKALNR NLKGPDLDELDESANCCEKGREESER SGR*AWQLCSVTGAPFLTGLIPLLGDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7013	15064	A	7699	94	330	KRSRYKMCMLHFNESODVTAQIALQPAL KFNGGGHNNHSIFWTNLSPNNGGEKPG WYILVHPYLIHFVHSRNLIIYWR
7014	15065	C	77	183	350	MYGLPGFFYAHRXXXXXXXXXXXXX HAPALRVINRSHSPITGGRVALPQPLV MV*
7015	15066	A	770	260	360	SPN*SPNVIFDS*DSPEKTAATVRGDFYV TGDGRGMD
7016	15067	A	7700	33	807	GPRAAQRHSLWNLRLRQLQOIGISG STSTSSMLSRVCGTSRQLAPVLGYLGS ROKHSILPDLPYDYGALPHINAHMHLH HSKHAAVYNLNVTEEKYHEALARG DVTQAIALQPALKFNGGGHINHSIFWTN LSPNGGGEKPG/EELLEAKIRDFGSFDK FKIEKLTAASVGVQSGWGWLGFNKER GHLQIAACPNQDPLQGTGTLIPLLGDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7017	15068	A	7701	2	436	SGRGASLRPGVRPSPSVSEWEPYSGPGSTPP PPSSRSKDVGKPAQSWVRGGSTQNTGQ LPKEGLSTPHFVRPAGIPSSRQALLSSGN PGTRAPSAPALRPEAQSPAEPGPAP/SPE LGGERLGGARFQEPFPQPAASFPGAAT QA
7018	15069	A	7702	1	389	PGSSRQRCHWQPCACQACQOALINLIY FYHDGQLYCGRHHAELLRPRCPACDQLI FSWRCTAEAGQRWHENHFCQDCAGPL GGGRYALPGSPCCPSCFENRYS DAGSS WAGALEGDAFLGE/HWKVTHSLGRLDS TN
7019	15070	A	7703	1	1217	MGGHLANVPTGTSLQQTGLMEKHEFTSG KQLLKTQLQNNIPQITERTHNGWHQAWL LVFSCVRSFVAAALFAVGLCGGHHWCL AVFSVCAGHSTAVVSLPSGQSHLSANM FVALHSYSAHGPDLDLQKCEGVRYLG KCQDGLWLRGVSLVTGRVGIFPNVYVPI FSTPSQLSGCREVGFTLVKPVVHKMGVY GWEEGSISEGDIHGKAVPSNPS/VVPTAV NPVRSIAGPGLTGQGSRLRKRSSMRKN GSLQRPLQSGIPTLVVGSRLRSPT/MGPS ASAVPILPATGDPILLPSRGGGDGVQA/S PSRSGPPSRASAGAVRPGSTPRFAPSLWK TKKSPRSVSALLKPPASAPPSILVKPENS RNGIEKQ/DQNRREISEIALLPPNITLPPYT SOKPEQPSLPQCVA
7020	15071	A	7704	27	211	FHIVQYFNFFVCLFVCLFETESTLSRPLEG SGVISAHCNLTLPFGFNNSCASA SRVAG TTQ
7021	15072	A	7705	27	211	FHIVQYFNFFVCLFVCLFETESTLSRPLEG SGVISAHCNLTLPFGFNNSCASA SRVAG TTQ

7022	15073	A	7706	1	514	LSQSEKNNYSSRSPDSQYIDNRSVNSD RASQ/ARERAPRLNHPPEQIDSHRLPHS AHPSGKPPSAPASAPQNVSTTSSGYNT KKIGKRLNIQKKGTEGLGFSITSRDVTI GGSAPIYVKNILPRGAAIQDGRLLKAGDR LIEVNGVDLVGKSQEEVVSLLRSTKME G
7023	15074	A	7707	65	515	DPRVRAAGILYEFTWNQPCDWYLELTGP VMNGGTEAKLRGTRITLVTLEGLLRL AHPPIPFITETIWQRVKVLCGITADITMLQ PPQYDASQVDEAALADTEWLKQAIWA VRNIRAEMNIPGKPLELLVAGICTRNPN TSVNEENRGFL
7024	15075	A	7708	2	505	EPVKKIFNYIHFVRNIMDFKFLFVVFAG VFLPFYARTLSQSPTFYSSGTVLGVLM TLVFVLLVKRFIPKYSTFRALMVGCWF ASVYTVCCQLMEDLKWLRYDNRIYVLGY VLIVGFFSFVWCYKHGFLADRSRSLLM WMLRLLSLVLYAGVAVPQFAYAAAIL
7025	15076	A	7709	2	417	EPVKKIFNYMIHVRNIMDPKFLFVVFVA GVFLFFYARTLSQSPTFYSSGTVLGVLM MTLVFVLLVKRFIPKYSTFWALMVGC WFAVYVVCQLMEDLKWLWYENRIYVL SYVLIVGFFSFVVGTSMGLADDKSRNL
7026	15077	A	771	80	357	GPFFFFGDRVLLCHPRLECSGMTAHCS LKLCSQ*PSHNSLLNSWEHRHMPPLA KFFHQQT*KK*KNRSLSEAPLSVFI KKVTTT
7027	15078	A	7710	14	426	RPIRMAVKQKISMLCHVNEQVICHDS STYRVPVLEEQISIVYFKERLHLPDGS ASNLLFKWRNMADRYERLQKICISALV GKYTKLRDCYASVFKALEHSALAINIKL NLMIYDSIDLEKITEDEDPVKFHE
7028	15079	A	7711	61	204	GRYA VVWHCPQGPGLTFLAVADTSGA YFRREGLSNYLGGRSPTES
7029	15080	C	7712	537	710	MCHHTQPIFVVFVEMRFYVGGQAGLEV LTSGDPPVSAASQGTGITGLSHRAQPSVR F*
7030	15081	A	7713	788	894	KHGWLGTVAHTCNPSLTGLGQGWIMR SGVQDOPGO
7031	15082	A	7714	1	452	SPVPOLIVPTLVSVLLEPFLGAPLPANR LWTHLWAPRAWKQSPWQAPGLGRLPS SLHGSCGAPGAYTRPDRLHDKACPAE HGGGRGPGGEAASRLTAPSPGCGPERGL GTTSPSQSRATSSGGSYRSFTDPPPPPIC HHRRFFLTL
7032	15083	A	7715	48	421	DLQSSGGQQRVQSVSPGRGIPQLPC AKALYNIEGKEPQDLKFSKGDHILRTQV DENWYHGEVNGHGGFFATNFVQIKPLP QPPQCKALYDFEGDKDEADKDCLPFA KDDVLTVIRRV
7033	15084	A	7716	2	492	LTLNLTITPSLARGNFPYLEGGRVLLDGK PISAYDHKYLHRVISLVSQEPVLFARSIT DNISYGLPTVPFEMVVEAAKANAHGFI MELODGYSTETGEKGAQLSGGQKQ RVA MARALVRNPPVLIIDEATNALDADSRDL IQHALSIGNLKKHRDFLSPVPWP
7034	15085	A	7717	2	721	EKGVEEPENPAKEKCEGKEEEETDGS GKESKQCEAEASSVKNELKGVFVGAN TGSKSISEKGSEEVKRSWRMTNKSEES SQPEAGAVSRGNFDEESNASMTARDE TRDGFYMEDGDPVAQLLHERTFAFSF WPKDRVMINRLDNICEAVLKGKWFVN RRQMFDFQGLIFGYTPTTVDSPLOKRSF AELSMVGQASISGSEDITTSPLSKEDAL NLSVPRQRRRRRRIKGN

7035	15086	A	7718	111	381	DRGLASFQGLEVQVHNLSSLQSPVPV LRRF/SPCLGLPRGCDYRPVPHQANFCI VSRDGFYHVQGAGLELLTSSDPPTSSQSQ SAGITGV
7036	15087	A	7719	1	190	ENKEEGQLPSSFYEASIIITLTKPKDSTK KS/SYRPT/SLMNFDAKUFNKMFTNRJQQ YIERIHI
7037	15088	A	772	80	357	GPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPPHLA KFFHIQQIKL*KK*NKNRSLSEAPLSVFI KKVTTT
7038	15089	A	7720	1	2499	MAAAVAAPLAAGGEEAAATTSVPGSPG LPGRSRAERALEDAVATGTNLNSNRRLK HFFRGAARSYDLSITQADLSNRNRPPEVP EAAACQLVSEGLSLYHNCLRCLNPALGN LTALTLYNLNRNQLSLPPYICQLPLRVLI VSNKLGALPPDIGTGLSLRQLDVSSNEL QSLPSELGGLSSLRLNVRNQLSTLPEE LGDPLVRLDFSCNRVSRIPVFCRLRHL QVILLDSNPLQSPPAQVCI.KGKLHIFKYL STEAGQRGSALGDLAPSRPPSPFCPAED LFPGRHYDGGDLSGFHVSVDSSGSRWSG NESTDEFSELSFRISELAREPRGRERKED GSADGDPVQIDFIDSHVPGEDEERTVVEE QRPELSPGAGDRERAPNSRREEPAEGEE RRRPDTLQI.WQERERRQQQSGAWGAP RKDSLKPLGRAVVGAAAVSTQAMHN GSPKSSAQAGGSGAGSPAPAPASQEP LPIAGPATEPAPRPLGSIQRPNSFLRSSH QSGSGSPSPSVLRPRRYQPVPDEKDL TQLRQVLESRLQRPEDLAELASGVIL COLANQLRPRSVFHHVPSPAVPKLSALK ARKNVESFLEACRKMGVPEADLCSPSDL LQGTARGRLTALEAVKRVGGKALPPLW PPSGLGGFVVYVVLMLLLYVYTYTRLID PRSPQVAWEVAPSMTPLAPWDPKYEA KAGPRPVVWVWGQTCGTGWGAQGA VR WPEAPVLCPHPRGPTVAQEPRSQAGRC VTPHSGRCMKOPRAGVSGPWLPQGTG MDSRRPQMGSRWCAVKMSSSRLTCCP GGSVFPCTCPRPSPR
7039	15090	A	7721	1	647	RPPVPVQVPDKKIDIMTLRRVLESRLQ VLPEDLAELASGVILCOLANQLRPR/SV PFHHVPSPAVPKLSALKARKNVESFLEAC RKMVGVPESLCOPHHILEEGAPGRQLR LIIAAVVQRPAGPALGVKVGAGGPPRFG PREQTRLGSLSEKHIVRVVAWAWARL GLPRLASGVLEGLGGRTCGCRRCRVS NKQKPEALWKRGCCKIKKL
7040	15091	A	7722	3	450	SRSVLQRGGIPLGQWRMGVRRTGQVGP TMHPPPVSGAS/PPPPPPPPPPHHIHL LR/TSCVPGLYAQSSSSSSSSSSSSSSSS SSSSSSSSQLNKLKFKVSSPNSPTLSSSF SFLPFPFASLTRQFFIECLPGAGMSQVL GK
7041	15092	A	7728	3	368	LLGQAVKYGVNPGPYGGTTRKLYEKK LLRLREQGPESKSTPVPITISSAENARQ NGSNDSGRYSVNEEDSKIELKEKRDP KGRAKTPVTRKQRRVELSESYSQAGMD EGVWSSGSSGK

7042	15093	A	7729	1	1492	ALMDEILMLQDEINELQSSLAEEIVSESC EADPAEQALQSLTTLVLAERMSTRMKA SGKRQLLEEKLDQLEEQREQALQRY RCEADELDSWLSTKATLDTALSPKPEP MDMEAQLMDCQNMLVEIEQKVVALSEL SVHNENLLEGGKAHTKDEAEQLAGKLR RLKGSLLQLRALHDKQLNMQQQTAQE KEESDVLDTATQSPGVQEWLAQARTTW TQQRQSSLLQQKELFQELAEQKSLLSV ASRGEIILQHSAAETSGDAGEKPDVLSQ ELGMEEEETSAEDQMRMKWESLHQEFS TKQKLLQNVLEQEQEVLYSRNRLLSG VPLVKGDVPTQDKSAVTSLLDQLNQAFE EVSSQSGGAKKQSSILFQKLYGVVSATS TWLDDVEERLEVATALLPEETETCLFMQ EILAKDIKEMSEEMDKKNLFSQAFFEN GDNRDVEDTLGCLLGRLLSDSVVNQR CHQMKERLQOILNFQVSKILSKDT
7043	15094	A	773	810	1075	SLRSSKTQPROHOKTSSLKIQKISRVRW* RTLLLGLKLRQENCLNPGGGGCSFPLHH CTPAWATE*DSGQKQKKKGQRKSCHF SVRT
7044	15095	A	7730	1073	1233	PYSGLGIFFFLRHGLTSPRLGCSLRLC HCTPAWVTSKTVSKNKKQKNSR
7045	15096	A	7731	34	445	STHASGDHSPKICS/TG/SYPFANSPSKG PTTLM/PVNTAALTVPANPASVITVPSKLP TSSKPPGAVPSNALTNPAFSLPINSTRA GMVPSKVPTSMVLTKGCASTVPTDSSSI NEETPMAPTAPAGVSSSLAWLDT
7046	15097	A	7732	3	416	
7047	15098	A	7733	1	2115	
7048	15099	A	7734	1	662	SLFASNVGSGHIFLAGSGAATGISVSAY ELNGLFSVLMALWVFLPIYIAGQVTTMP EYLKRKRFGGIRPILAVLYLFIYFTKISV DMYAGAIQQLSHLDLYLAIVGLLAITA VYTVAGGLAAVYTDALQTLMLIGALT LMCYSFAAVGQMEGLKEKYFLALASNR SENSCGLPREDAFHIFR/NPLTSDLPWFG VLFGMSIPSLWYWCTDQGG
7049	15100	A	7735	3	315	
7050	15101	B	7736	107	388	SKKLLFAGSRSQLVQLPVADCIKYRSCA DCVLARDPYCAWSVNTSRCAVVGGHFG SLLIQHVMSTSDTSGICNLRGSKVRPTPK NITVAVAGTDL*
7051	15102	A	7737	98	473	IRGDTISYTVRSPPFRAGREYA*MTAGPP SPFSPLTQPFPALYREEGKYKILNPGA/K/ YVRAPPNPSQTHSRLLHFPSPHENHRP WSRTRPTPSALPLKGHSTLSTPPPYVHR CPTFGGSGG
7052	15103	A	7738	2	433	GDTGHRERLQLLREKHTWGPFPQATP QAAVPSRRTQPGQ/GWVTVQGQPPSR GFHPRPAAGLSQLLHLGVDPDLGQSGGL DCEVTPKPSYFPGTSGAGPPGTMGSSSLP QNGNWDEEAHILPQGGEGMNEGVPW RLIIF
7053	15104	A	7739	328	496	HNITDLFIY/CYEMESCSVTQAGVQWRD LGSIQPPPLGCKQCCLSLPSSWGLQVP ATT
7054	15105	A	774	499	946	LWLPRPGAGAGAGICLRREGOTWLLPLR SHGGKCEAASPWVSQRLLELQKPSALW WPLGLLHVHIFWKYTCAGSFLAGLKLRI TFNFIFFFLFPISICIFYLFLFFFRDGV SLCCSGWP*TPGLKQSSCLSLPSSWDFKC TPLCLL
7055	15106	A	7740	1	372	MEKEEPGVVERKKENRVKEVIHKNRKGA EGPPAGAAALPGRGEGP/PEPPGGA PRAGERCGQLAGASPEPAETGITREPRR GASAAARKLAAAAVGLRPGCPRAGRR

						RAPWPGKRLSEPRV
7056	15107	A	7741	34	366	ERPGPVGTLLTTPQGHPPAGP/S/GRPGS LGFTWYPYGPCTWRPAWFPARPPAGSI TPPGFCTHTLVSLDPRGDCPSPTGDGDS LCPPHPDASPGIKAFCAQGGKKKKKK
7057	15108	A	7742	2	462	IRARNYKLRKVMVDGDPPIRVKKDAHE LILDFIRSPPLKQVSERRRLRRLPPKQSL HEKILLEIKQERRLRPVGE/ELGCPRVW LS/SPASSTPAPEMPSPTASTCQSQMLGA APSAR/VPRVLLKAPTLAEMEEMTSEIR AQQPRNVTAHNQ
7058	15109	A	7743	2	1002	TGPGVPMQCVGVEDYGEPAPEEPPAPRP SREQCKVCKCEAQPVVIRAGDAFCRD CFKAFYVHKFRAMLGKNRILFSGEKVLL AWSGPPSSSMVWQDLEGLSQDFAKRL RFVAGVIFDEGAACGQSLERSKTLAE VKPILQATGFPWHVVALEELVSGEGAY KAAVDSF/RPAAACAGGPGVVLARLKG RNSHPSP/SLDPQNLARPPAQAQTEALSQ LFCSVRTLTAKEELQTLRTHLILHVARA HGYSKVMTGDSCTRLAIKIMTNLALGR GAFLAWDTGFSDERHGDVVVVPRMRD HTLKEVAFYNRLFSPSVFTPAVDTKAP EKAS
7059	15110	A	7744	2	397	APDTPDSSKFORSK/NYKGPLDPORKE DKVNSKSVLKEPGLDLGYSDDIVTDA DEDISASHTLTEEELKIKLISEIRNPGI KLISGWNIDILERGEARLWLEIKLCPAA ELHLIVHNKEIFRLPNR
7060	15111	A	7745	1	849	OKKELGHVNGLVDSKGRKTSFSSDTDL LDRSASKTELKAIHAHARILERRASRFGTP TSSASTETPTFEQNDVDEDIIDVDEEFVA AEPD'YVQQLRRFPFELLIAAAMERNFTQ FQLPNELTCTPALPGSSKRRRKEETIGKN VKKTQRELDHNGLVPLPVKVCFTCNRR CRVAPLQIRDYCPILLFHMDCLEPPLTAM PLGRWMCNSNIEHVVLNHNMTLSYRC QVTFDRFQDTSVQHVVKVDFLNRHKKH PPNRRVLQSVKRRSLKVPDAIKSQNVQS TP
7061	15112	A	7746	1	201	MKKKKEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEEEE EEEEKKKKKKHIFKILSNLYIFIIFYCSKK
7062	15113	A	7747	3	112	KRTRLGMMMAHA/CNLSLTLGGQGGRVTR SGVRDQPDLE
7063	15114	A	7748	1	1476	LTVIRVDENWAEGMLADKIGIFIPSYVE FNSAAKQLEWDPVPVGVDA GECSSAA AQSTAPKHSIDTKNTRKRHSFTSLTMA NKSSQASQNRHSMEISPPVLSSNPTAA ARISELSGLSCSAPSQVHISTTGLIVTPPPS SPVTTGSPFTFSDDPYQAALGLNPPLP PPPLLAATVLASTPPGATAAAAAAGMG RPMAGSTDQIAHLRPQTRPSVYVAIY TPRKEDELELRKGEMFLVFERCQDQWF KGTSMHTSKUGGFGPNVYVAPVTRAVT NASQAKVPMSTAGQTSRGVTMVSPTA GGPAQKAQGNAGVAGSPSVVPAVVSA AHIQTSQAKVLLHMTGQMTVNQARNA VRTVAAHNQERPTAAVPIQVQNAAG LSPASVGLSHHSLASQPAPLMPGPATH TAAISIRASAPLACAAAALTPSPITSAS LEAEPGRIVTVLPLTPSPDSASSACGN SSATKPKDKSKK

7064	15115	A	7749	139	6503	LSGITKMTLHATRGAAALLSWVNSLHVA DPVEAVLQQLQDCSIFIKIIDRIHGT EEOQ ILKQPVYSERLDFVCSFLQKNRKH PSSPEC LVSAQKVLEGESELEAKMTML LLYHST MSSKSPRDWEQFEYKIQAE LAVILKFVL DHEDGLNLNEDLENFLQ KAPVPSTCSST FPEELSPSHQAKREIR FLELQKVASSSSG NNFLSGSPASPMG DILQTPQFQMRRLKK QLADERSNRDE LELELAENRKLLTEKDA
7065	15116	A	775	56	425	GQSPPGHWGHVAQARELLRPGRLPCWV PDGHITVVRPVSGPEPTGSRILSGEES PSR PPSSQAARPPGQPRDPSSILRIPL LPRP*LSQSGLASSGSLRAGALPRRPP GALLS PTPCTSI
7066	15117	A	7750	1	5290	MTLHATRGAAALLSWVNSLHVA DPVEAVLQQLQDCSIFIKIIDRIHGT EEOQ ILKQPVYSERLDFVCSFLQKNRKH PSSPEC LVSAQKVLEGESELEAKMTML LLYHST MSSKSPRDWEQFEYKIQAE LAVILKFVL DHEDGLNLNEDLENFLQ KAPVPSTCSST FPEELSPSHQAKREIR FLELQKVASSSSG NNFLSGSPASPMG DILQTPQFQMRRLKK QLADERSNRDE LELELAENRKLLTEKDAQIAMMQ
7067	15118	A	7751	241	6574	LSGITKMTLHATRGAAALLSWVNSLHVA DPVEAVLQQLQDCSIFIKIIDRIHGT EEOQ ILKQPVYSERLDFVCSFLQKNRKH PSSPEC LVSAQKVLEGESELEAKMTML LLYHST MSSKSPRDWEQFEYKIQAE LAVILKFVL DHEDGLNLNEDLENFLQ KAPVPSTCSST FPEELSPSHQAKREIR FLELQKVASSSSG NNFLSGSPASPMG DILQTPQFQMRRLKK QLADERSNRDE LELELAENRKLLTEKDA
7068	15119	A	7752	775	1128	REGLYLSRPFPHSKLPRTPQPDGTS VPGEP ASPISQRLPPKVESLESLEY FTTIPARSQAP LESSLDSLGDVFLDS GRKTRSAARRITQI INITMTKVRLLG QQLQGSNSHFLSRASLQ
7069	15120	A	7753	331	530	LKIIFFFFPSGSDMSKNVVSQSQMAK LNQ MAKMMMDPRVLJHHMGGMAGLQ SMMR QFQQAAGNMKGMM
7070	15121	A	7754	1	1517	MVLADLGRKITSALRSLSNATINEEVLN AMLKEVCTALLEADVNKLKVLQREN V KSAIDLEEMASGLNKRKMIOHAFKEL V KLVDPGVKAWPTPKGKNVIMFVGLQ GSGKITTSCKLAVYYQRKGWKTC LICAD TFRAGAFDQLQONATKARIP PYGSYTEM DPVHASEGVEKFKNENF EIIVDTSGRHK QEDSLFEMLQVANA QPDNIYVMDAS IGOACEAAQAFKDK VDVASVIVTKLD GHAKGGALSAAVA ATKSPHIFIGTEHID DFEFPKTPFIS KLLMGMDIEGLDKVNE LKLDNEALIE KLKIQGFTLXDMYEQFQ NIMKMGPF SQILGMIPGFTDMFSKGNE QESMARL KKLMTMDSNDQELDSTDG AKVFSN NSGRIQLRALRPSCVSTSDVQELL TQYTKFAQMVK*MOGIGLFGKGDMS KNGARSQIAKVLNQQMAKMMMDPRV LH JHMGGMARLQSMMRQFKQGAAGN MKG MMGFNNM
7071	15122	A	7755	42	449	FGLFNRLPYPPQHPKPHYSRIPGA/H APP GPQNPSTVFLSPLYCWGPSSKSP GAPKRC PSSISTPPSATPPRITLGS WPGRCQKQ GEAQSYQVRQDPTAS PQAPAGSRLPSWS GNQTYLQGLHGR GPRARITLQLPG
7072	15123	A	7756	3	358	LLIIBSTHPTTYPIPHPGHHFFLPL FFFF FFSFSPFHPSTHPLHLSTYPI PHPSYYPV PLSLSVYSSIHLPTEY FLQPVAH/RRSH GRISMPGEQSP PRI.WKSPSSKPPFPW

7073	15124	A	7757	1	1668	MLVITTOPPEVHIQYNHSSAATRSRFORL QLQIWGWSQVLPMASAFYQIIQASGLRL HACVTPGAGTHISLPFLPSVGNLPSNKG SRVYCFFAADLFDILLFMLNIYQEFVRNH QYSLQVLANCKQNRDFDKLLKQYEANP ACEGRMLETFTYPMFQIPRYHTLHELL EGCDILLDTSTQFIROGTMKNSNTIUVKH EWGRQLHSDWTLLSGPDILCSSKEDRS AWPTAVAVPSADDTQAKAQEKLALSKP FHRLGTMSQS*SLHQRTQEGLPCS GHHKFTTLQIPLNSSAPPLSTA WRTDGG QCPLLCFTGFPCFNHSSCSRTWEPPREE DDICLPTSQARCNEYVGLRKSIMLVQKK DKKNITCRSLTPSEEGLGTIVKLVFSEI MFNLDFKIVVEPDAAAFTVVLAFSRQ EKAAMWMSDISQCVDNIRCNGLMTIVFEE NSKVTVPIMIKAKVNGCTMSHLDNSLT LPFDTEQGRSSSWTAGHVKAFCPLHAQ LPLLASLFLQELQAFARMSFPY
7074	15125	A	7758	1	2247	
7075	15126	A	7759	1	3711	
7076	15127	A	776	3	383	QGFRKLPLKTTTGKEKTHSCIVGLGHVN SGKTTTTHGLHIYKCGGFDKRTIDKFETE ADKAKGSFKNWDLDDKLKAERERGITD ISLWKYETSRYVYTIIVAP*LDFINMSTG TSQADCAGLIV
7077	15128	A	7760	1	226	SLEFSQSKQLYLSRVKHDEVSDTENIRIN LAERMIVEGCDILLDTSTQFIROWDHEN QQHNHSKARVGQAVTF
7078	15129	A	7761	41	1065	GRLGPHIWSQOREGEAQAWQAAGPEPCP AGRQLRPGESSTAAPGPGAKLPPTARG QGRPAALSA GPTEAPEFTTRNSGWPA SAPPVFRWQGPLLVGVPGEAGRYSAAP SLSALRFAWWPQDVPVAVQWQATDDAY EALSPSSCAAMFPSSVAPYPSITVTPDEE QNLNHVIOVLENLVRSPSGEPGREKKKS NSPKHVYSIAKSGSKFELVTHGDASTE NDVLNPISEETTTFTTGGFTPEIGKKKHT ESTPFWSIKPNNSIVLHAEPEYIENEEPE PEPEPAKQTEAPRMLPVVTESSSTSPYVT SYKSPVTTLDKSTGIGDLYRRRCSSALR
7079	15130	A	7762	3	342	KERSREKTGGGDLQREVAREDRRWR SQREDAREDRRWRSSERGLRRQA EIPREDAREDRRWRSSERGRPRRQ/RG GGDLQREDAREDRRWRSSEREMPEKT GGGG
7080	15131	A	7763	205	338	NPYYSQLFFDKGTKNHVG/RDSLFNKC CSENLSIIRKIKLDP
7081	15132	A	7764	1	666	GDPGAGPGDHNRFDCGPQPPPPKCELL HVAIVCAGHNSRDVITLVKSMFLYRKN PLHLHMVTGAVARNIMETLFTWMVPA VRVSFYHADQLKPQVSWIPNKHYSGLY GLMKLVLPALPAELARVIVLDTDVTFA SDISELWALFAHSGVILLRLDRLQAG WEQMWRLTARRELL/GLPATSLADQDIF NAVIKEHSGLVQRLPCVWNVQLSNHTL AE

7082	15133	A	7765	3	1289	INFPPTTSGLDGDPGAGPGDHNRSDDCCPQ PPPPRCCELLHVAIVCAGHNSRDVITLV KSMFLYRKNPJLHLVITDAVARNILETL FHTWMVPAVRVSFYHADQLKQVSWJP NKHYSLGYLMLKVLPSALPAELARVIV LDTDVTFASDISELWALFAHFSQTAIGL VENQSDWYLGNIWKNNHMPWALGRG FNTGVILLRLDRFRKAGWEQMWRLTAR RELALSLPATSLADQDIFNAVKEHPGLVQ RLPCVWNVQLSDHTLAERCYSEADLK VIHWNSPKKVLVKNNHVFEFRKIYLLIL ENQGNLLLEEVFLCPSQPPYADQLQVR PLPQLDEEDPCFEFRQQLTVHRGHLLF LPHEPPPPRPHDVTVAQLSMDRLQMLE ALCRHCPCGPVSLALYLTDAEAQQLHFV EANGVGIDRV
7083	15134	A	7766	530	820	
7084	15135	B	7767	1	954	MATAATIPSVATATAALGEVEDEGLA SLFRDRFPEAQWRERPDVGRYLRFLSGS GLERLRREPERLAERAQLLQQRDLAF ANYKTFIRGAECTERIHRLFGDVEASLGR LLDRLPFSQSCRSRAARNVAVSMAAG AGTAGPASGPGVVRDPAASQPRKRGRE GGEGARRSDTMAGGGSSDGSRAAGR RASRSSGRARRGRHEPLGGPAERGAAGE ARLEEAVNRWVLFKYFHEALRAFRGSR YGDFOJRDIMQALTFRGTLDQSSKQE LSLDLSSESIKNQVNITYSLRSRDCANFD ILYDIKPF*
7085	15136	C	7768	97	408	MKTKVQPRLTVRVARNCSPKNKAHDNK QNWSWEEDSQITEPSAGLNSQEAASAP PSKPTVFNQPLPGKEKNPKYEDLLCRNFG AGWWSWLGVLVLLPGIKEFYS*
7086	15137	A	7769	1694	1866	PLIACSFLLFFFFFLRQSLGVSHPGLGV QWRDLGSLRPPFGLTQFCSLSPRSWN
7087	15138	A	7770	106	317	CSAETEREIGRRK*CIQESSSPSLIKKCP ICKAD*YL*SHLGATADAAPFLQSSSL*Q DLPSYREADL
7088	15139	A	7771	321	449	
7089	15140	A	7772	2516	2717	FVKSKALAFFLSFFFFLKQSLSVTQAG VQWPVDSLQPLPRFRKFSCLSLPSSWD YRCVPQCPAN
7090	15141	A	7773	3	282	
7091	15142	A	7774	1	1126	MRPGSLDVTLEPRSEGGKEKSIPIERRNG PCKDPGAAACKLCLTSLVLFATNRHMYL HNLLLRQGVSRASRQSALTQSSGTPAMY QCSKTYIYFQGIQVDYQEVTHITGLPSIEG SMLDIKIYVNRGEHKNVLEEAIATIL KEVLEGLDYLIRNQIHRNSRKLENDIR FEFTPRGRGPKNGDGECEKHTTVLMRV EQQWDITERKTQTOMSTEAKVNDTAD GVSQELFSAGLVGDHGVVIACPSRNRL FIGHSTFPAQAQKTLGIVLDFSPSHTSHT JLNVPRILPLLTISHPTTFQAPLNSQLSSCI HPFAAPASVLAQLPVLISTARDPGTSH YSSALGFIGQQIPAYMELSPVIGELCLSK VTE
7092	15143	A	7775	2	1622	
7093	15144	A	7776	1	698	MAAKLVGIEFDCPVVVKMLMEKGHIKQT REHNYPSMEQSEKAGVTDNIQKGTAL AGSRQSVANGKNSHCKENVTLIIHHYV QPMKPYEVFWIEFVTHQKATKYLQCLPT TSPDAVFPFGELLAELLKIPFVYSLRFSFG YAIKHSAGGLFPFSPVVPVMSLSQDM TFIE/RGRPTTLSETMAKADILIRNWD FQFPHPLPNVEFVGGHLCKPAKPLKTL GHGWDRAP
7094	15145	A	7777	1	1584	

7095	15146	A	7778	2	1627	AATGKQALHCIRMSMKWTSALLLIQLSC YFSSGSCGKVLVWPTTFESHWMNKITLD ELVQRGHEVTVLASSASISFPNPSPTLK FEVYPVSLTKTEFEDIKQLVKRWAEPLK DTFWSYFSQVQEIWTFNDILRKCKCDI VSNKILMKKLQESRFDVVLADAVFPFG ELLAELLKLPFYRPRFSGVAIEKHSQG LLFPSPYVPVVMSELSDQMTFIERVKNMI YVLYFEFWFQIDMKKWDQFYEVLGR PTTLSETMAKADIWLRNYWDFQFPHPL LPNVEFVGGHLCKPAKPLKEMEIEFVQ SSGENGVVVSLSGSMVSNTEERANVIA SALAKIPQKVLWRFDGNGKPTDLGLNTRL YKWIPONDLLGHKPTRAFITHGGANGIY EAIYHGIPMVGVPLLDQDPNIAHMKAK GAAVSLDFHTMSSTDLLNALKTVINDPL YKENAMKLSRIHHDQPVKFLDRAVFWIE FVMRHKGAKHLRVAADHDLTFQYHSL DVTGFLLCACVATVIFITKCLFCVWKFR TGKKGKRD
7096	15147	A	7779	1	187	SGRPFFFFGLPFLFFFFF*DRVSLLPRL QCNGTISAHCNCLCPGSSDSFASASRAE LP
7097	15148	A	778	213	500	SKRCLSLGRGASSLEAAEHLSCCPQADG LSRSPQWASAPPRQLLSCSPAGRGLPLQ ARSPGSRRG*WVP*QGPPHQHSALT*AP AQRKRKKNQ
7098	15149	B	7780	436	711	DVYKIGGIGTVPVGRVETGLVKPGMVVT FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSKDVRGRNVAGDSKND PPMEAAAGFTAQ*
7099	15150	B	7781	26	384	MHHEALSEALPGDNVGFNVKNVSKVDV RRGNVAGDSKNDPPMEAAAGFTAQVILN HPQISAGYALYIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*
7100	15151	A	7782	3	523	FAPVNVTTTEVKSVMHHEALSEALPGD NVGFNVKNVSKDVRGRNVAGD/SKND PPMEAAAGFTAQVILNHPQISAGYAPVL DCHTAHIACKFAELKEKIDRRSGKKLED GPKFMVPGKPMCVESFSDYPPLGRFAV RDMRQTVAVGVKAVIDDKAAGAGKVT KSARKLQKAK
7101	15152	B	7783	32	188	MVVTFAVNVTTTEVKSVMHHEALSEA LPGDNVGFNVKNVSKCWIWFLASPX*
7102	15153	B	7784	60	209	MHHEALSEALPGDNVGFNVKNVSKVDV RRGNVAGDSKNDPPMEAAAGFTAQ*
7103	15154	A	7785	3	313	
7104	15155	A	7786	13	553	
7105	15156	A	7787	3	366	IGY/NPDTVACV/PILGWNGDNMLEQSAN MPWFKGWKVTBKDGNASGTTLLALD CILPPTPTDKPLRLPLQDVYKIGGIGTVP VGRVETGLVKPGMVVTFAVNVTTTEVKS VSMHHEAQKAK
7106	15157	A	7788	1	513	EAGISKNQGTREHALLAYTLGVKQLIVG VNMKMDSTEPSPYQKRYEIVKEVSTYIK KIGYNPDTVAFVPISGWNIACKFAELKEK IDRRSGKKLEDGPKFLKSGDAIVDMV PGKPMCVESFSDYPPLGRFAVRDMRQ TVAVGVKAVIDDKAAGAGKVTKSAQK AQKAK
7107	15158	A	7789	1	1099	
7108	15159	A	779	1	615	

7109	15160	A	7790	1253	2560	SLVMLPLFDMVPGQAHVLLRASQDYPPF GSLCWFVIMRTDSCGWVSIKSSGQKRL ELIDAPGHRDFKINMTITGTSQDCAVLLV AAGVGGEFEAGISKNQGTREHALLAYTLG VKQLIVGVNKMDSPEPPYSOKRYEEIVK EVSTYIKIGYNPDVAFVPISGWNQDN MLEPSANMPWFKGWKVTBKDGNASGT TLEAVDCILPPTRTDKPLRLPLQDVVK JGGIGTVPVGRVETGVLPKPMVVTFAPV NVTTEVKSVMHIHEALSEALPGDNVGF NVKNVSVKDVRRGNVAGDSKNDPPMEA AAGTAQVILNHIPOQISAQYAPVLDLC HTAHACKFAELKEKIDRRSGKLEDGFA KFLKSGDA/APLVDMPVPGKPHVCLRSFS DYPLGRFAVRDMRQTVAVGVKSS/VD KKAAGAGKVKISAKQAKQAK
7110	15161	A	7791	39	362	AEKWARNMFFFDLQMTDQVSLRLTW SELFGLNAAQCSMPLEA/PLAAAGLQ AYFMSADRRVAFMDHIRIFOEAEKFR LHVSGPEKQCLKAIVLFTSNTWGRG
7111	15162	A	7792	19	384	FISSIKFIMSFNFTSLFHFFISLQGFSSHY SSK/SHFISFHVSSVHLIFSSHHFMGSSQ LFSSDHFHISCHRFMSYLLRSVQHFHNSF HYFRSSHLITSCHHSSCNQSSSSQHFS
7112	15163	A	7793	16	450	TQSHQSPPPGSPHAAHTCCPGRGEEA GGTGSCLLQOQHTRFPAALKDWPGGR PEGHKVRSDFGRPASSTVQLKOLSGER DGCPLRRGPGPHRAEGSPSRALRPPGTR GNTATRTPTVSSGMRASQCAWRNEVRS LMVQAF
7113	15164	A	7794	1	427	
7114	15165	A	7795	1	330	
7115	15166	A	7796	3	1229	SPSPPLPGLASQDSRPVFPSPTPAMAAVP TQPQSEKGPWSPSESPMLRITAPLPPGP SMAVPTLPGGEIASTTPPSRAWPTQEGP GDMGRPWWAEVVSQAGIGIGQTTISST ASGDDDEETTTTTTITTTITTTVQTPGPCSW NFSGPEGSLDSPDLSPTDVGLDCFFYIS VYPGYGVEIKVQNISLREGETVTVEGLG GPDPLPLANQSFLLRQGVIRSPTHQAALR FQSLPPPAGPGTFHFHYQAYLLSCHFFPRR PAYGDVTVTSLHPGGSARFHCATGYQL KGAHRLTCLNATQPFL/WDLKEPVCLAA CGGVIRNATTGRIVSPGFFGNYSNLT HWLLEAPEGQRLHLHFEKVSLEADDDR LIIRNGDNVEAPPVYDSVEVEYPPPPPL QPHYHRVSV
7116	15167	A	7797	110	342	FVLFPKTVYGERAMTKDNNLLGKFELT GIPPAP*GVQIEVTFDIDANGILNVSVD KSTGKENKITTINDKGKEA
7117	15168	A	7798	1	335	NFTREDHQYAPLDPKIHGLPRMPMPSE RLMAAEAAFYSPPYHDPRTNSGWEHT GLYESFRAKLRSPPRKGPKEKNSGSPSR NRKSRGRSSRSNRSS*SSGSYSRS
7118	15169	A	7799	110	409	
7119	15170	A	78	226	481	CLAHSRHSINISTCTGAEGHESEFSYWG TRGPSATMACDGLTRTGHSSPSRARSPP LLCARSLTKAACQ*AVPVTWCHCWRPQ G
7120	15171	A	780	140	459	RSSLPLCLGLWTHLIPVKVRDLSGPFAFR GEKADMPVLYDRLLKLMEMLYFKSGTI PMFYG*APRRVYIIGERHYCGYSVLPMA VEQDVLIAVEPVKTYALQLAN
7121	15172	A	7800	40	621	

7122	15173	A	7801	1	338	GTSFYLYRKGYLSLSKGVPMISHYAGTLL LLLAGVACLRGIVRWTHPHYRKTMTIP* ASHRNQSSKYPRHIVANYNCDFRSWPD FHCDEPIRNESSQGGPIRRSVHTASPKPM
7123	15174	A	7802	1	390	ILDCHTDDSGTYRAVCTNYKGEASDYAT LDVTGGDYTTYASQRIDEVPRSDPELT RTEAYAVSSFKKTSEMEASSSVREVKSQ MITRESLSSYEHSASA*MKSAAL*EKSL EEKSTTRKIKTTLAAR
7124	15175	A	7803	3	235	VNSAEAEAEQANTNLSKFRKVQHLEDE/ AVALPHFDLLIQLVHLADEAEERADIAE SQVNKLRAKSRDITGGGLNEE
7125	15176	A	7804	2	561	MRPHRLDEAEQIALKGFFKQKLEARG RELENELEAEQKRNAESVGMKRSERTP SKELTYQTEDRKNLAAACRTLVDKLQL KAKAYKRQAEAEAEQSPNLSKFRKV QARAGLRAEERADIAESQVNKLRAKRSR DIOTKLEMKELAFATSLNLAPPLGRCP ANAPCWSLCSNLSFLGREA
7126	15177	A	7805	3	303	GRFPALIDSRSPSPAPPTQ*CRPPSPFP APPTLWLAPPCPPPPHGYGPPFARKR RGAALGLTRVLPSPGSAVRRSPGPGGS ACDKVFRTTSR
7127	15178	A	7806	190	389	RRITYTSHLLACLRQGLAFSPRLCEGKKIR AHCSLQLYGSSDPT*APQTAGTKQHNO RIAQCNDN
7128	15179	A	7807	3	271	FFLRQSHSVTRLECTGAI*AHNCNCLPGS SDSPASAS*VAGITGMCHHARLIFVLVE TGFHVVGQAVLELL/NLMICPPQPPKVLG LQA
7129	15180	A	7808	610	923	FYLSEAEFFFFFETES/HLLSPRLCESG MMSAHCNRLRPGSSDSPASAS*VAGITG GHHPAQILFVAF/MYQPGFCHVGQAGQO LLA*VICLPQPPKVLGITGA
7130	15181	A	7809	487	796	LSIFFFFFFEGRGAIVANVSNFPGSKKPP PSLSKEPGTTGAAPPREIFFPPKTRLGFA LHPGSPPPPGPWAPLWSKGEKVGLKKH KVGRGRGFSVPSP*KKPPSLKEPGTT GAAPPREIFFPPKTRLGALHPGSPPPPG PWAPLWSKGEKVGLKKHKVGRGRGFS PVSPFF
7131	15182	A	781	595	1060	ARFLPKYQSTGPHPSFNAFLSLGAMCV LPRPNFHS�AVRSPIVGGPAPLVPGE* BGLGVTQSQRDCPSPMGTPRCRS*LRP AAGRGCSPLGGCPWTVTHPLRTKAGC TLSWAQQPVVLPVGGEGPRCASPVAL GFSPCALCHLDPPVK
7132	15183	A	7810	1	340	GTSQVLTLTIAEV**NLG*VGCK*CKHTE AKRMPCAEYLSV VHEQICVAHENTPVS DRVPIRCPELAIRLPCFSALEVDETYGD* EYNAAEFTLHADICTLSEKERPIKKQ
7133	15184	A	7811	3	337	IESSLHQVESMHGAGNAKKNWQRIQEH FFATFHPKLDYCL/EGTNLVEADNQA WTDVQKKHPWNSRVSDDLLELLFQDR AARLGK/SISRILRCOPSLHSDKPTNFR G
7134	15185	A	7812	3	926	YGEENLKTSICTFLAVLSLHDITQNIPEK KLILKQALIVVLQWCFNHNFSVRLYALV ALKLWTVCKVLSVEEFDALTPVIESSL HQVESMHGAGNAKKNWQRIQEHFFAT FHPLKDYCLETIFYILPRLSLGIEDEWITD KFTRFTDVPAAAGQWYLSQTKSLKLP GDWSQQDIGNLVEADNQAEWTDVQK KIHPWNSRVSDDLLELLFQDRRAARL/GKSI SRLIVVASLIDKPTNLGGLCRTCEVFAS VLVVGSLQCISDKQFQHLVSVAEQWPL VEVKPPQLIDYLQQKKTEGYTH

7135	15186	A	7813	3	360	ATCSSDQSVKVDKSESJDWHCTASW KTHSGSVWRVTWAHPFQGVLAFCFTD RSSAVWDEILSESBDNL*GHTHWVKRTT LEDSSVATCV*SFLSHVGIMLLSCGTFEP ACICGVFP
7136	15187	A	7814	9	305	SHLLRSLRQFNRLNPRGGCNPQRSGHC TPAWATRAKLHLKQKTNKMLANLIQOH IKKVIHHYQVGFTPGMQG*FNICKSVSVI YHINKRTTHKNVAAAA
7137	15188	A	7815	3	217	AASTMPMSFEWQRO*RFPPYTLQPNVN TRQKQLTA*CSLVL.SLCRLHKQSSMTLIK TRLTSDSITVMLDC
7138	15189	A	7816	15	335	QHFWERFHVTKDRINTVERQETDWKIFA TYLMKKV*ISRCKYNSYKLVRRKQLNR KWAKEKNKQSQKKQSQG*TKTVQPQ* NKRAN*RYYLSPISLAKSNKLN
7139	15190	A	7817	1	331	GLIEILVIYVSDTPVK*DV*SDIFEQ*AYG KIDGGNDVCDLQSSSGTNTKMKNNNEEM MIGFAAMDETGHGGETENEGISTKSKPD EAETNMLLAEMDTFVCDTVEMSTEG
7140	15191	C	7818	51	200	MSTPXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7141	15192	A	7819	3	219	MLAGCSRTPELR*STHCSLPCWCWDYRRA HNAQPFLTNR*RSETRRL*FIMWLPLE FLGFPLESQGGCTA
7142	15193	A	782	71	237	EQPGMVTHTCNPSTLGGRGWIT*DEQF KTSANMVKPCLCWRYKLAHGAGAC L
7143	15194	A	7820	1	358	VHCLVPDLLQSNNNPCYWGVMKDYAA EALLEGKPEGFTLLRDSAQEDYLFVSFR RYSRSLHARIEQRNNHNSFDAHP*VFHS PDITGLLEHYKDP*MIPEPLLTPLIRT PFCL
7144	15195	A	7821	260	481	LILKFV*NHKIPQIAKTILSKENKAGGITL PDAKISCKAVVTKTALYWHTRNHEQW NRANTEINPNICQLI
7145	15196	A	7822	1	306	VKAKAKKLQIQIOLLELYCSYDMQFED FAHRAMDYFPKIENNLSTRMDHVMVSF CENWHQLESLLILHNMPHYEEDDEFE GLRLDMVQ*RLTSCSDAG
7146	15197	A	7823	3	396	SSLSLSSSSVSTFGFGTPFSVSSSIDPG GLALAFSSSGLSTFSSP*SHSSSSPPVPP LSSDTRRSTSPADMAAPSAT*TRRSTAPS NPFFSLAAPPREKGGNPTNERRKLETP PGRRRQRROR
7147	15198	A	7824	3	344	HEHECYAKVLYELKPVGEEQPNVSKQN CDLFEQLGQYEF*NALLVRYTKNVPQGT TPALGQVLRNLRKVSSKCKCIPEAKTM PCAFDYL.SVILNQLCALHDSAVSDRVS RCWT
7148	15199	A	7825	1	413	RAGYRQKWGSLATVIGQLGLPSGEGLV WPQRRREGHRAHCSSELVLDLHVITQ NRANHRPCGSLSELKFAPLALQGR QSKTLQKKNKQTTTKNTKKQPGSVA HACNPSTLGG*GRQITLPSGVRDQPGQH
7149	15200	A	7826	37	363	ASDWNQDRARGRGQGGCETRDSSSQ GTNGQPPAEASKDSWSSGGKMAR*APSP QRQKAGYPGSPQAPASMRSLGPPQF QEPPQALFPLEVPIPSHTRNKMARA
7150	15201	A	7827	3	354	HERAFLNNNSCL*AFDPYQCDRYLFKIV TDVYTYPPVLIYYI*APLPLLQLTHIF LSLFFL*VLNIYALVYLSTALPLSLFISISS PRYSLCLFHFLSLMLFLSSLMYCSHY
7151	15202	A	7828	2	269	ARVAPLKGVQEQEVREHEVTKPEKEK GEETRIENGLIIVVSDSCGRVYVSGKIYY PM*AYNDGLILERYQIMPIDIIVSYVFI

						CLD
7152	15203	A	7829	2	350	KDIRVGHQRNLRALPPQASPTVAPGQPT ALPPTGHSPTMGWPSRLSQLSLTAPTS ASPTVVKLPSGACWPLSSTFASPLSLVQ *P*NSDSHDATSAMAPSSSERECLSPWPA R
7153	15204	A	783	236	404	EDGHHSGLHSHKQKQPAWPSMVTHTCN PNTLGGRRGWIT*GQEFETSLTNMEKPC L
7154	15205	A	7830	2	376	SHCLEPKDIRVGHQRNLRALPPQASPTV APGQPTALPPTGHSPTMGWPSRLYQLS LITAPTSASPTVVKLPSGACWPLSSTFAS SPLSLVQ*P*NSDSHDATSAMAPSSSERE CLSPWPAPRA
7155	15206	A	7831	176	379	SVTDHPYINCNLSPSPNGSPDFSDPVLFP VVMTDYLLP*CVICCCFLSDPFIICSPHIV GGSFFGIN
7156	15207	A	7832	1	344	NSGRVGSGNLISPLPPGPPGRFLEEATP VLLSQGIPEREDSFRNLRTDLYIHLKLS* DSPEISLCOGEEATPRHSDKHNS*NAAS EGKCGCF*SPTEVEIASHDEEDVIHS
7157	15208	A	7833	355	535	PNRPTGEVTTKNLTCKSLRDPGTFDEFC *TFKEGFHPTLLKTVKEGLHPTLYEASIT L
7158	15209	A	7834	61	250	RSRLCAPVRESHTYLIMPGLCC*FFLYYI FFGFFSVVFCLLSFYSPFFSVSSV*F WVF
7159	15210	A	7835	3	66	DAWEKKICETEDWLFIEIHRQISSRMKR NKESLQDV*NTIKRTNIRHVIKREKRG RKLI*EIMAEENPNLGDMSIQVYEAQRS PYRHSKKTSPKHMILKSLAKSR*IRG
7160	15211	A	7836	3	146	HMVAGAVAGILEHCVMPIDCVKTRMQ SLQDPDAARYRNVLEALWRIETEGWLWR PMRGLNVSASCAGSAYALYFACSD*LTQ LPAIAMCWRPSGGL
7161	15212	A	7837	2	329	VASGRRRKNLLSKVTGLEVPPEGSTPDRPC SGRQSLNPPVTSFFNPQSRNTPPTPTRO MATL*EALHGSHLPPGGAERCTSSGPR TTRPQVSDRRAQSPSTSYVGPHERP
7162	15213	A	7838	2	356	EAGAHT*ITMNMKQRLKKTVDVDTVEVSD FTVSRNSAHEAFNTAFTTLAACAASIG*V LLYLYLTTCPC*CKTKRQNNMLHQSN NSSILRPGPASDASADERNACARKRAVL LEPLKD
7163	15214	A	7839	3	264	
7164	15215	A	784	2737	2915	KNVVHTHQGILYSHKKEQD*LGVAHT CNPSTLGGRRGWIT*GQEFETSLTNMVK PCLY
7165	15216	A	7840	42	226	
7166	15217	A	7841	1	507	LQLEAEQRKQKQKQSVGLHRYLHLL DGNENYPCLVADGDVIFPITNSEKTK VKKTSDLFLEVTSATSLQICKDVM DALI LKMAEMKKYTLNKEEGSLDTEADAV SGQLPDPITNPSAGKDGPSLLVVEQVRV VDLEGLSKVVYPSKADLAIATAPPHVTV VR
7167	15218	A	7842	51	340	PILVYRPDVP*VAKDYASFRTNYT*GPLL DRVFTTY*LMHHTQTVDIFIRSHAQFGG FSYGKMTVMEVEDLLDGLMDESDPDLN FLKSPHA*KIAY

7168	15219	A	7843	44	1352	KMLYKNFHMQSQELTALWEAKVHPAML GLDELGRSGCGHCTQADLRFGDAAGRD PGQDNDNRNTAEPAFPPPVRVMAAAAL RAPAQSSVTFEDVAVNFSLEWSLNEA QGCLYHDVMLETLTLISSLGKRQTLHTR ERPYPEICIECGKFAEKSSLNHRKVHSGA KRYECNECGKSFAYTSSLIKHHRIHTGER PYECSECGRSFAENSSLIKHLRVHTGERP YECVCECGKSFRSSSLQHQRVHTRER YECSECGKSFSLSNLHHRQVHTGERH ECQCCKGSFSRKSSSLHRLVHTGERPYE CSDCGKSAENSSLIKHLRVHTGERPYEC IDCGKSFRHSSFRHRQVHTGMRPYK* SKFWKFCPGFLLLOGQVHTGSRCEYC DKWGIFFS*NASFFT*KSAPTBEVFECN ECEKAFSPLSLVT
7169	15220	A	7844	2	353	NILLYQFVHTTEVINNLGPLELINTRSHH RVHIDGRNRYCIDKNYAGVLWIDKWSFGT FEAENEKV VYGLTHPINTFEPIKVQFHHL FSIWTTFWATPGFFNKFSVIFGPG*WGP KP
7170	15221	A	7845	3	386	TVRVCACDHHGNMQSCAEALHPAGL STGALVAILLCIVILETVVLFAALRRQR KKEPLISKEDIIDNIVRYNDEGGGEDTQ AIDIRLIMNFPVPI*DTHLRRCFAP*TSLYY HRATPTRSCYHP
7171	15222	A	7846	151	352	YCCTYIFVLFIP*SSCGLTLFITCILFGSI SFLLFTTIVFSIIVTTFKFRLLYSIIFLSYLL C
7172	15223	A	7847	2	265	VKPSP*PLTGALSALLMTSGLAM*FHHS ITLLILGLLTNTIPPVQKGLRYGILFITSE/V FFAGFF*AFYIPA*AYPOLGGTAQODT
7173	15224	A	7848	1	156	GIRHEAYHIVKPS*PLTGALSALLMTSG LAM*FHHHLKKKKIGSSPIAVG
7174	15225	C	7849	512	778	MISGLSHVDFTSNISLPHTRAYXTNLT NHIPMMARMLTRRKAHTKGHHTRTCSK KAFRYGDKSYLFTSGSFSSQGFLEPFLP LOA*
7175	15226	A	785	361	710	DLFWLF*MDKFLDTYTLFRLNQKEVK
7176	15227	A	7850	15	613	LKTTTHLLFQVSVGQESRCGLAKSSGSKS LTRVKVVRGQ*PRLWCHLKAQGLKDLLLS SLTWLLAACGSSPVVGLWASAPGLLLAS HHPRFSATWVFHKVAHNTAAAGFMSTGK QEG*RDKITAKQKFASYNLISEVTTHHFL PYSIYEKQVTRSSPHTKERDSPRG*LSE KDHWEFPQKLPAITDIALFYNKIQT YIHL
7177	15228	A	7851	66	355	KSMTDGHIQVTNIRQLPARTLYTHWPR EFSP*SPPLERMHTRGARREARQKAPRIR DKRRGKSRVHCLGEELANGGWDRIWR GKGERQGDGSRV
7178	15229	A	7852	3	358	HASAHASGGQDDQLERDHN*DRFVRQ VVGINNYRISESGHPYINFGKIFHDCAD LDTSEH*LCKCDSFDKTLKPTINLVSYNR NFA*TNIDENFRCKGSPSYSSCYSKHEEL HNGM
7179	15230	A	7853	79	413	LSKGTGRKRDGLTLPAPHPKAKTDPAAP QQQPGVGVRSPPC*G/QREQGSAGSP GWMGGGCP*PV*PLKGGQNPSPSSLGG SKGSFFSPDP*AVARGRRVRGEERGQVR E
7180	15231	A	7854	171	173	LTAEACLSFSPSLPSSLGVSQCPHHGGLG PAHP*ALPQPPGCFEAAWPPRALT*PLSS PLTPPAPGHCRIRRGEEGASAFPGLGT GLVLSFEDDHLQD*GQAHTQSQPGASP QTLCCFRGLGHAGELLTPTTVQPLFPE SASKWPQLFGPRILPGPPKGSPTTKAWPP GVCQQQLPLVKHGP*PSPASGRSRCEV SVBSCP*V*PL*GWGCLAPACCSQW*P

						SVPSCPVVLPWGWGLAPAGCRSQHWR D
7181	15232	A	7855	27	263	FHCFTSNF*VANRSSLLIDFSVGLLKCKS FIFFNAILHYCLMMVCEYDSFLFSYMF LLIFFYFYFYIFYLLFIHPY
7182	15233	A	7856	92	354	VLNSI*SGNQGKSYANVYRLVLDPIPKI YAEAYTP*NVNSTNLETSPKTIQKFPED REFKNDFFKTKNGDRKETAFAHPFLFL V
7183	15234	A	7857	464	2848	GETGMSTALHTTIVAMRCPLGGGGGP TYGPPQWGHFDVHIMQHHLPIQARLG SIAEIDLGVPPVMKTFKEFLSLDSDVD ETEAVKRYNDYKLDFFRRQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGLQ NRLRVFLSLMETGWFDNLLLDIKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGPSKKEEGRAGAGLDGERK TNDKDEKEDGKQAENDSSNDKTKKS EGDGDKEEKEDSEKEAKKSSKKRNRK HSGDSDFDGVSSESESESGQAEEEEKE EAEALKEKEKPKKEEWKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEISLCK RYPGFMRVALSEPQPERFRFRGWVTFD RSVNIKEICWNLQNLRL/RECELSPGVNW DLTRVRNRNGITQHKQIVRNDIKLAACL IHTLDDRTQLWASEPGTPTPLTSLPSQNP LKNITDYLIEEVSAAAAELLGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLLYL RJVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLSEEAQKMGRKDPEQVEKTF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEVRKEVAFFNNFLTD AKRPALPEIKPAQPPGAQILPGLTGLP YPHQTQGLMPYGPFRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL APDDVDFF

7184	15235	A	7858	1073	3541	GETGMSTALHTTTVAMRCPMLGGGGP TYGPPQWGHDPDVHIMQHVLPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDSDVD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEFWRSKYHPDEVGRQEQEARGALA QNRRLRVFLSLMETGWFDNLLDIDKAD AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGPSKKEEGRAGAGLDGGE RKTNDKDEKEDKGQAENDSSNDKTK KSEGDGDKKEKEDSEKAKSKSKRN RKHSDDSFDEGSVSESESESGQAE KEEAEEALKEKEKPEKEEWKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEHS LCKRYPGFMRVALSEPPERRFRRGWV TFDRSVNIKEICWNQINRGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRRVNINGITQHKQIVNRDILAKLI HTLDDRTQLWASEPGTPLTSLPSQNP LKNTDYLIEEVSABEELLGSSGAPPEE PPKEGNPAEINVERDEKLIKVLDKILLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLEEEAQMKGRKDPEQEVEKF VTSNTQELGKDKWLCPI.SGKKFKGPEFV RKHIFNKHAKEIEEVKKEVAFNNFLTD AKRPALPEIKPAQPPGPAQIIHVPRVVL PPGLTPGLPYPHQTPOGLMPYQPRPIL GYGVPTGPPYPHAPYGAGRNYDAER GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDF
7185	15236	B	7859	145	226	MAVNCSEMRKLSWNGCAINAGDCHL EATSCSSTSFMDMLGEFRHCESSILLAST AX*
7186	15237	A	786	2	424	
7187	15238	A	7860	136	1559	ILTMREIVHIQAGQCGNQIGAKFWBEVISD EHGIDPTGTYHGSDSLQDRISVYNEA TGGKYVPRAILVDLEPTMDSVRSQPF QIFRPDNFVFGSGAGNWNWAKGHYTEG AELVDSVLDVVRKEAESCDLQGFQTH SLGGGTG/SPMGTLTLISKREY/PDRIM NTFSVVPSPKVSIDTVVEPNATLSVH QLVENTDETYCIDNEALYDIFCRFLKLT TPTYGDLNHLVSIATMSGVITCLRFP QLNADLRKLVS/VNMMVPPRLHFFMPG FAPLIHQVSESQYRGSHKCRELTQQVFS DAKEH*WAACGPATGRYLTVAIAFR GRMSKKEVDEQMLNVQNK*QLTLWE WFFQQCSRTACLFTSQRPSPSRWAVHLS LGNRHSHSRELFQSGIFGSSFTWPCFRK AFALFWH/YTQGEHGHTEMGVSTEG*EA TLNDLRL*SIKQLPRMPTQEEEDFGEEA EEEA
7188	15239	A	7861	2	304	ARGLCPLGYTGLKCTDIDECSPCLNN GVCKDLVGEFICEPCSGYTGORCEENINE CSSSPWLNGICVDGVVCYCCTFP*GFCI FKFSCSSCPLYTI
7189	15240	A	7862	1	345	GTSGTSRFL*DVLMQNDFGTRWRYAT VIYQKPLKSLILE*RETWVLGTDTGLQ TKEEKDPRLRKTLLVYVAPLLVLSVDL EALSGAAPRLFLKDAIRDQARIGRAERT VL
7190	15241	A	7863	2	343	VRSAYPRRENSLAGQRRHHLCHPLPP AGGARAPQPPQPLLGARPGGRCRM RRRPQAPRAGGAALARAL*PLSSTASR RGACPGAAPSDSPEDPASDHGHSPLGG RC

7191	15242	A	7864	1	338	QIDEIVTETLLTEAERGAKVYLTTGYFNL TQAYMDLVLTGTRAEYQILLASPEVNGFF GAKGVAGAIPAAYVHIERQFFNDECSL* QSRVQLSEYWRCSGRSLSMIEFVRREDI
7192	15243	A	7865	174	361	
7193	15244	A	7866	1	1259	VRCPVRNSRVDPRVRMAAVFLVTLYE YSPFLYIAVVFICFIVITGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITITGILTDCLEDLSLTC YWGCSSVKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYFVILSSDIPISTEN*T SYG*SVANLLJLIGILEACLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIURL LMDKVPLTY*SYFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFVKKDSKEEYCO LPRDNTIDDFGTVPRSRYPVALLTISDE DDREIYDIISMVSVIHIPDRITYKLSRILY QYLLLAQGGFHDLLKQLFMSANNFTPS NNSSEKNTDRSLLEKVGLESESEVEPSE ENSKDCVVCQNGTGVNW
7194	15245	A	7867	106	387	
7195	15246	A	7868	2	766	
7196	15247	A	7869	149	420	CGTDKTFWWSCTVRENLSYSEELLSSR QICKNKNDPPGDRD*FDYSRSDYEHSSR GRSYDSSMESRNRDREKRREERDTR KRSRKSP
7197	15248	A	787	1	462	
7198	15249	A	7870	1	443	GQDSRSRDNGPDGMEPEGVIESNWNEIV DSFDDMNLSESLRGYAYGEKPSAQOQ RAILPCIKGY/DCDLYETLITQAVIFINTR RKVDWLTEKMHARDFTVSAMHGMMDQ KERDVIMREFRSGSSRVLITDILLARGID VQOVSL
7199	15250	A	7871	2	363	ELDTLCDLYEP*PSPSIIFNTRRK/VDWLT EKMHARDFTVSAMHGMMDQKERVIM REFRSGSSRVLITDILRIGRGRFGRKG VAINMVTEDKRTLRIETFYNTSIEEMP LNVADLI
7200	15251	A	7872	3	449	NLQEWKLDITLCDLYETLITQAVIFINTR RKVDWLTEKMHARDFTVSAMVCLPAA SLLWVCPSEVSYLKPGLPRCLPGLLHI CFLFOHGMMDQKERVIMREFRSGSSRV LITDILLVSRGN**QRQKGGSKVIPSPRG HQCLSGK
7201	15252	A	7873	236	533	
7202	15253	A	7874	1	366	AEIRDSPCGELHVEREEWKLDITLCDLY ETLITQAVIFINTRRKVDWLTEKMHAR DFTVSAMHGMMDQKERVIMREFRSGS SRVLITDILLVSRGN**QRQKGGSKVIP PRGHOCISGK
7203	15254	A	7875	5	1285	FLRIMSASQDSRSDNGPDGMEPEGVIES NWNEIVDSFDDMNLSESLRGYAYGPE KPSAIQQRALPCIKGYDVIAQAGSGTGK TATFAISILQIHELKATQALVLAPITREL AQOIQKVYMALGDYMGASCHACIGGTN VRAEVQKLQMEAFHIVGTGORVDFMLY RRYLAPKSRIMLVLEADEMLSRGFKD QYDIFQKLSNNTQVVLISAIMPFDVL EVTKKFMRGPJIRILVKELELTLEGURQF LHQPVNEEEWKLDIT*CDLYETLITITQ AVIFINTRRK/VWDWPHPRKMHARDFT VSRHAMGDMGPKNETVIMEGFSRSGS *QSF*LP*PCWARGIDVPARESLVRYND LPTNRENVIHRIGSTVDRFGRKGVAINM VTEEDKIRALRTLGASYNYSIEEMPLNVA ADLI

7204	15255	A	7876	3	378	MDTTPLSYSES*SDEYLVNMQ*LDQAFRCGLVKPGLNVLKGPINAVIDYNGLKQC LA*FKRYLECL*RLDVTLCVP*IGGSDA PLPHNKDHKAADP*DYFQR*MSFYRQA HAAMLAVLPLRHH
7205	15256	A	7877	2	397	RESESCAAADTPALETSLFHGDWIEIEVFNRDLGSTYPDDLAL*MEDVDFEEYEE*GYD*GWVLYPQEGVIGNMEGFDYS*VTFALHSSSVYRVSLDPKTYTLAVTGGYDDGAFVWLLTYG*LFE*ASHE
7206	15257	A	7878	3	399	NSQVLLDSPQLSKITENYECITELSQLKREQSSTVNASNLEND EARLKAYLENRSEIDSLKTSNPIDL*EASISQAGSIN*SRF*SSGMNKSVDYRIDNFNGSIGDRILLTAANVILAWCRLYGLMRQNV
7207	15258	A	7879	1	424	PVLVRARERSLPGQEGPHGRASESASPLAPSIAPSPGPPALASASHIMGSGALRSPETPW*SPWDP*APLDLVSF*WQPPGPHASATP*RSPLGLQTPQAPGSWAPHVATPQASGLPAHVHTEP*ASS*LAMPVPEP
7208	15259	A	788	24	452	APSPDAMG/HSLVGKVNVEDAGGETLGRLLVVPY*WQRFDSFGNLSASAMGNPKVKAHGKCVLTLSDGAHKHDDLKGTFAQLSELHCDKLVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMYTGVASALSSRYH
7209	15260	A	7880	156	312	LFLSACRYHVYPTCRNTSGILGFTVSVVTNAIPFIS*LSSFYIYFLYNFG
7210	15261	A	7881	15	394	FGCLLQGRRLPKSHSPWQPGASGRPAOGKHKNR*RGQNPSNLSHPAFTPWPGIKCPLPRAGPSLSLLPGRVLCARPEFLHGRGLEPSASLLPSALAPSLRGLKGTERRSLKADQAWGGWKE
7211	15262	A	7882	2	102	NKILIIKINSRKK*KIE**RDNNQSNNNKHNK
7212	15263	A	7883	3	397	NFLYTLFYPNFV*SAHCF*NQKKKNKYFLLEKCLLNCFPHLYVAFYVYPSIFNLSGC*YLPSCSIFYVFIPLSHPLFFFLCFSLSFSLPFFLSLFCPFLAFLFHPFILLDSSACLCLISCFHIL
7213	15264	A	7884	190	339	DGKGLLQVCLPLQDVYKIGIGITVPVGRVETGVLPKPGMVVNFAIPVNTT
7214	15265	A	7885	377	1073	LQGHRLTGAVLIVAAGVGEFESWYSRPMGRPESMFPLAYTLGVKRLJVGVNKMDSS*PPYSQKRYEEIVKEGSTYBKIGYNPDTVAFVPISGWNGDNMLEPSANMPWPKGWKVTBKDGNASGTTLLEALDCULPPTRPT*QSPCGLPSSRDVYKIGG/ILGTVPVGPGRGLGVLPKPGMGGSPLAPVNTVIEVKICSEMAIHGRF*VEALSWGDNVGLSMFOGLLFCSK
7215	15266	A	7886	2	415	SVGDPCPSTASVDQCTIVP*PMEGPLLRYRRCIEGVGGFLWDPQSPSPQHGPATPSTGEPGPVYHQDLSHIQQPAAVVAALNNHKPPVRS*PPSATPEAT*FSKCDLDEELSLRLRYCHAFSEC*HDIRPSHH
7216	15267	A	7887	1	360	TERFGM*GGEAVCLYEYPSSELLRRCGNCITRESVVSFYLSADHELLSPTNYHFLSPKEAGGLCKAQITAIIFQQGDIFVFDLETSAVRPFVWQVEAIPVDYLPFSFVMIIPTLYCSP
7217	15268	A	7888	152	378	WEGGSGTILARRFWDLQAYRPHAQVPGFLR*SHLMAVGHAETDLTALTMILITPEAWQLHTILYLSGLLAMLP
7218	15269	A	7889	302	564	YWLFDYFMAIEKILNGYFCCCC*DRSCYVAQAGELWHERGSLQRPFGVKQCSYFSLSSWDRRHVPPIILAN*TFRCRDRVSPVLP

7219	15270	A	789	38	485	APSPDAIMGHFTEEDKATTISLWGKVVN EDAGGETLGRLLVYVPTWQRFDFDSFGN LSSASAIWMGNPKVKAHGGKVLTSIGRC HKSTWDDLKGTFAQPDVNCCTDKLHV DPENFKLLGKCCW*PVFGNPIFGKEFTP EGAEPLPGQKDG
7220	15271	A	7890	1282	4603	GSLPCLEHVSLLNNPLSIIPDYRTKVL AQ FGERASEVCLDDTVITEKELDTVEVLKA IQKAKEVKSKLSNPEKKGGEDSRLSAAP CIRPSSSPPTVAPASASLAPQLNSQGIMP VQEEALASSLSDTSLTEHQPIAQCQSD SLESIPAQGAASDDLDPVGA VGGASPE HAEPEVQVVPQSGQIIFLPTCIGTYATN QDFIORLTLIRQAIEROLPAWIEAANQR EEGQGEQEEDEEEEEEDVAE
7221	15272	A	7891	1	286	SPPTIVVPASASLPQFLSNQIGLDE*VIL VS*ACLLARPAKRGOCAPSGAEARDT QERTPPARAPGDAELGVRSWENSSTRCP KSQKNIFTT
7222	15273	A	7892	3	417	PPPLWFNQDPHVESKGLAAGRVPVSTSQ GRTRQFGSAPPKDPLPRIGPSANRRVP HTFPQDISFPSPKPPS*DRPHNPSSLRSP LVSHSVHNQAGRWAKVQATAREKSDT KSIWLWRWRRLKRTSRNSLSYTLHG
7223	15274	A	7893	2	236	KKSNLRMLAEHGGSHL*SQLCRRRLRQEN HLISGGGGCSESTSHHCTPAWGT*DFVS EKKKKKLTGWFDPGSRGKWWC
7224	15275	A	7894	3	254	LECNGTISAHCNLRMLVSG*FSRLSLPSS *DYRRPRLRPANFCILVEMGFHHVGOAG LKLQTSGLDPLSLPKCWDYRAHPLA
7225	15276	A	7895	1	185	RQSLALSPLRCSGAIIHCSLEPLGLRQL CCLSLPKC*DYRHEPLSLACLFLFYPPH LT
7226	15277	A	7896	1	182	KLVLGPEPVSTYSIRVSAFTVGNNGNFSN VVKFTTQESG*IQFLSLKCFLLYLTPTFSF S
7227	15278	A	7897	4	329	AGEGLQALILRDGAWPQPSGD*QVKG LEPLTPAPAGSSQGPQGPPIASSPVGQS KTDTATTTKVGPVGGGQPAPMHQQLPP SPGDPAAEDAHTWGRSLSGMKGK
7228	15279	A	7898	115	408	HWKERGSLYPA*TOGSACVLPQGGLP RPQATPPTTAHLVPPQHCRPRGPAAPAP* QGMSTPTTATLFSRLQGRQLQPMGAPSG QGPWLYCRGEGPRA
7229	15280	C	7899	128	253	MNSPDWELWQDNQSPQSCVLIPRTCDH AASRRDRSSGVIE*
7230	15281	A	79	421	899	IASFLIVKVEEVSQTAIWKKKKCDEYIP GTTSLGMSVFNLSNAIMSGILGLAFAL ANTGILLFLVLLTSVTLTIYSINLLICSK ETGCMVVEKLGQVFGPOGKFVIFGAT SLQNTGGKKNMLFFT*LEYTHHTSFFSK WLFVRIILLLSRSEINLLFI
7231	15282	C	790	128	274	
7232	15283	A	7900	856	1071	SFALVAQAGVQVHDLGSLQLPFRFK*F SHLSLPSSWDFRCPEPYWLIFVLVETGF HHVDQAGLELLTSGD
7233	15284	A	7901	87	395	RSGGGVPPRNPPLGGRGGGFPQGFQI TLSPKGLPFLFKSQNFPG*WAPPLKFPF KGG*TKKIFLTLEGGVPINGNPPPPPGG KNFFSKKKKKKKKK
7234	15285	A	7902	28	403	GGTITGNCVVPATVPAGSPGVPAVGGQP GPLPVL*RTSPETCPPLGVTTGSLCLAPY HSLSGGHGLPGTPREAG*REGGNSLOL QLPNPKPFLPSRPEDPTWSPSSQGEELRR RKVRCDLKSLT

7235	15286	A	7904	1	609	SHKTNVQQCYCYCGGPGDWYLKMLQC CKCKQWPHFACVQCLQKPM/LPGDRFYT FICVSCSSGPDYLRKLPLQWVWDIAHLCL YNLSVHHKKYFDESELEMTYINENWD RLHPGELADTPKSERIEYHVLALNDYK TMFMSGKEIKKKHLFLRLRVPVPNP VAFKAKEPEGTSHFEKLKGRKASKPIS DSREVSNGI
7236	15287	A	7905	440	608	CVKLELDTSQLADTPKSERIEYHVLALN DYKTM*VDLFYVSL*GRHLVSRINNGIV
7237	15288	A	7906	49	796	SHFYFLTIVWSSLVNEVC*SSPFLMNLQ VVLIFYWLLLLYELCCRRSHFVCLFTM FINIVTF*F*YLIHIVFLYG*LGFFYGYYK NIVNILLHAL*FCLSHFGFPLGTIFNI*Y EVIFLL*G*SVVPALFIEKKQKQKTLFL LL*SAFSVVYQYMQRSFMSLLYWF SCANVHSLHYFMIFKIKFDI*YQSPFTSL FINSLWLFLVLCSSLYLEIAYHVSLLKAE HIENLIGVAMNL
7238	15289	A	7907	178	565	KGGATCPESPQDRKRRGNLMEKLYSE NEGMASNHGKMENE*QPQDQRKPQVTL YSGRQEVRRKGRKQGGQNR*GNV*R IKGKPESEGEAKEGKSEREGESEMEGGS EREGKPEIEGKPESEGEPL
7239	15290	A	7908	3	413	VTGVLVYLAVERLISGDYIEDGGTLMST SGCAEAENIMQ*TLHQSGHSHGTTN Q*EENPSVRAVFIHVIGDFMQSMGVLA AYILYFKPEYKYVDPICTFVFSILRGTL TILRDVILVLMEGTPQGVYFAV
7240	15291	A	7909	119	427	LESISHKRSSPHRIVIRLSKAKTKKSVLR AVRQKYQITYKRTPISLVSDCSAQTLQA RRDLGPTFCLKENNQPIIYPVK*SFIN EGKIVFREISPERIC
7241	15292	B	791	72	524	LPAPPGRIKRADLATRPSKVIRVRGGRK RPVPKGATLRKPVHHGVNQLKFARSLQS VAEERAGRHCGALRVINSYVWGEDSTY QWITKPVHKHREMRGLTSAGKRSRGLG KGHKFHHTIGLAGQLGEGAILSSSTVTA NISKVCKIHT*
7242	15293	A	7910	13	235	DLINKISKAAGYKINTEKSAVFLYTNSTQ TEKEIKKAIPFTITTKNKTLYGINLTKEV *ELYQENFETLMKGI
7243	15294	A	7911	39	141	LSIRGLNIIIRQL*DWIKQQDSTLCCP* EIH
7244	15295	A	7912	1	285	QQRPPGLRPPHPRGQDQLWLKGKGW AAQL*EGPSGSGRGRVERGRRRKGR KGRA*RGTRKAGGEGRETAASLPLRG HRSPQERPRFTL
7245	15296	A	7913	1	452	TAKTITFRNAHSHKLS*NVCKPVEETQR PPTI.QEIKQKIDSYNTRKCNLGMKIRE DGTYTGFIVHLKLRRTGTPVAGIRPQSI YDAIKEANLAVTTDKRTSFYPLDAIKQ LHISSTTTVSEGIQLVKFNGVDNPKQV ALFKRIHK
7246	15297	A	7914	1	484	NVLCGNNQISDLGILLPEVCMAPPEEKGD KDDQLNKETEDYNSLFEGLKVTEDSL SYEDNQDDSDLIQDLSPEEASYSLOEN LPSEDESCLSDDLAKRIEAEVVPTEGLV SILKKRNDTVGDHPAQMQHKPSKRVR FOEIDDSLQESLFGDGAL

7247	15298	A	7915	2	1121	HYATDRPFFPERVRILLYYTYSYVPSPFS YTKCCFEPFLTYVSSSLESKTCLGTSSEK SQHITVEPLGSSPCCHQMDVQDTSPLSV TAGKDHMEELLCSAEATIALHTOSSETA GSPSGPDSSEDACEDDSRLQLAQTEACQ DVARIEGLAEDPKVFLSSKSCTEPLISPGC EALPTDQLENNELNELQQPDLTDSDGKS PQAQADSNSENVLCGNQNSDLGILLPE VCMAPEEKGDKDDQLNKETEDYLNLSL KGCCLKDTEDSLSEYDNDQDDSDLLQDLS PEEASYSIQENLPSDESCLSLDDLAKRIE AEVNQR*STIKSKMAFKKHIVVLNIALFI
7248	15299	A	7916	2	390	SDSRETRVVNLKDSVFCLYCKLPGEKK NOYKNENGCKDQWHLSHLSKHEESEM HINNSVKYSLKSDLKKNKAIDAAERRL YENEK*WCAVHVHVILSCFLGMMIR NLTLRKTSLVAIVSTIVL
7249	15300	A	7917	1	240	KRGEKAPETSKTSTWRIPCRKRRLSNR DFPDLTSGEELPETCGSLRRSGREN* AETWPAQCPECESKAAVSTRFLF
7250	15301	A	7918	3	420	EPLSSPLFCP*NOQSKIHPPFLAPTWPH HHPPPGQPPFLSTGSHLV*QKPKGA HEHLSGIPPSLAQNPTWVPPHKGKRSPPH SATRPCKICPRLAPSTLLTPSNLTGP*PL LFGALPGLLPENFCITGCFL
7251	15302	A	7919	2	127	RFWDYGRIALVS*ADSESRFORLSTSS GQDDFENELVGI
7252	15303	C	792	56	289	MNFTNFTYISGSGGAGEYCAFSKLPGES HRIVWWNLWPPFPRLLSACRCQPORH LPCALWELVLVNFPTGCSRISSE*
7253	15304	A	7920	1	346	DSRSPSPASPPTQ*CRPSSFPAPPPRLW LAPPPCPPPPPIGYGFPFARKRRGAALGL TRVLPFGSAVRRSPGPGGSAWDKTLK MKQKFGFRSVGLWRELJRDCLAEALLSA
7254	15305	A	7921	184	291	
7255	15306	A	7922	481	716	VFFFHTECRSIAQAGV*CSLRLPPGSS DSRASVSRVAGIVGACHHAQLFVFWVA MGFHHVGEAGLEHLTSSDL
7256	15307	A	7923	4	423	VARERRLPGPQEGPHGRAAGSASPLAPSI APSPGFPALPASHILGSQALPSPTPW* PWDPPAPLALVSPWQFPFPAPPATP*RS PLGLQTPAGFSWAPPVATPQASGLPA PHVPETPWASS*ALAPVPEPWDL
7257	15308	A	7924	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKK GIQGHYNCSYLDSTLFCFLAFSSVLDTVL LRPKEKNDVEYYSETQELLRTIVNPLRI YGYVCATKIMKLRKILEVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
7258	15309	A	7925	3	187	VLAGLELEDEACAGCTDGTFRGTRYFTCA LKKALFVKLKSCRPSDRFALQPVSNIQIE RCNSLAFGGYLVSEVVEENTPPKMEKEGL EIMIGKKGIQGHYNCSYLDSTLFCFLAF SSVLDTVLLRPKEKNDVEYYSETQELLR TEIVNPLRN*YCSRFPIRLSAVTL
7259	15310	A	7926	4	343	KLEN*KMVLKEIKEDLNKQTDILFS* LITVRMSILPKLIYKFSAPIQPA*FL*IKIII KCMRKGK*TRIAETASSSSPSQSFILSPK LDHRGGITANCTPPWAIKGLKL
7260	15311	A	7927	1	531	FYHADHAALKDEMTEY*VFLQIKRYLY HORLLCKHFDAAALAAVYIQAEIGNHDS G*HIEGYSQKQFPFKHSEKLERKLAIEH KTELSGQTPATSELNPLRAQOTLEYGV DPHPCDKVSGNAAFLAFTPPGFVVLQGN KRVHPIK WNEVTKLKFBGKTFYLYVSQK KKGIGSCP

7261	15312	A	7928	115	348	KSLNIFGLKQTTSSLRWNRVKK*AHY G*QLJFNKGAKIH WIKYNPANGICYWISI CKKVNLDPLYLPYTIQNGS
7262	15313	A	7929	4	430	AWLSALNSSLPATWSCCPSLGASHKLO WEATSPVTPPRAPSQVKCAACEPTTPPLP CLFPQPPRSLSSQAQVLLTGHGP*GPLR RQGEGLLRSGGCAQLTQPNSEGGAV S*TRGPGDGA VGEAAPETTRDCPTAPP AS
7263	15314	A	793	24	452	APSPDAMG/HSWGWKVNVEDAGGETLG RLVVPWTORFFDSFGNLSASAIMGN PKVKAHGKVLTS LGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVT LAHFHKGKEFTEVQASWQKMTGVASA LSSRYH
7264	15315	A	7930	1	380	GTRLVRYTPKEQPVWTFPVEVFGDLG QVGPE*C*HPEAKRMPCAQDYSVVLN QLCVLYEKTFPSDRDTCCTESLVNRRP CFSALEGDEAYDPQELNAETLTFHADICT LSEKEROIYKQTVL
7265	15316	A	7931	2	388	NVQKSLAFLYTNNSQVESQIRNAIFTPA TKRIKYLGIPLTREVKGLYNENYKTLKKE FREDPNKWKNFPCSWGRINIKMAMLS KAM*RFRPVHIKIPGTFFTELKPKLFIW NQKRAQIPRATRA
7266	15317	A	7932	72	373	TSTLKKLEEKQTSRRKEIKPAEINAIEN KQIEKISKTKSCSF*K*SIKITN*LKQ*TK KI*INNIKNKRQGVMTMAFVAKRISRREYC Q*LYTNKFN
7267	15318	A	7933	2	259	KQWKPAFPGANPLPRGTSGPE*KGPHS DKAKPSPFFKKRQWGGAPSRSKARG KGQPFKGGHLKGPLRVVNGV*RAPLNR TAA
7268	15319	A	7934	3	335	QIKPPRLDTPHSFTPYHPVRRGLVYFPS APSPAKGEQLHTRTRHNVLGSHPRRLP RSS*SSHRVTRGLSGVPPARSTSYGSPR QWDLACPLTFEGVWRTKNNKEAL
7269	15320	A	7935	37	281	GPSYTDPTPTYP*LTLLTNPRNTSLFP TLHLPSPRTPSPSPSTLPSLVLRFLKIQ SGKRRAYPEHFWGQNGERKV
7270	15321	A	7936	13	234	DLINKISKAAGYKINTEKSAFLYTNISNQ TEKEIKKAIPFTITTKNTKYLGNLTKEV *ELYQENFETLMKGI
7271	15322	A	7937	3	426	VLEELPISVLNSSVPAWQWLAHVYHS HGMMAAQMCIYKTLQLASQRSSWVA KLSSLWRLALLALKOCMANISNDVYPS LVQEAETEAALKCFCLAVILLALLQFK RKNMVST*TLCLERVVYHFGPSKFIGSN WPAV
7272	15323	A	7938	132	393	ETNSLFGPQVKRQGNLDG*LNPPRGFK KFSGLTLRRSGNYRPSPPRVGP*GKRGL NWVAKGGLDLLS*NNPPWPSPQGARIM GES
7273	15324	C	7939	170	394	
7274	15325	A	794	38	604	APSPDAWMGHFTEEDKATVTSWCKVNV EADAGGETLGRLLVVPWTORFFDSFGN LSSASAIMGNPKVKKAHGKVLTS LGD AIKHLDLKGTFQAQ*SELHCDKAAM WIPENFKLLGNVLVTRFGQSHFRQKNF TPEGCKASWAERWVTCSWPVALFLQDT TEAQLPMNAELFKDKAFILASNYK
7275	15326	A	7940	107	379	PPFVAQLGGKGNLGL*LNPPRG*RFQSS LGPPISGNYGPPPSRVIFGLRKKGVSPS GPGGFGIPDLKIGPFPNPPKGLG*RGFPWG PNQ

7276	15327	A	7941	83	409	PEISGFFFDHIGIKLETPKRNFGNYPNT WKLNTLLNDQGVIEGSSSLKWLKTN EKGNPYQSL*DTAKAVLKGNLTAISAYI KNREKLQINKQCFNYPEKQEQM
7277	15328	A	7942	15	334	QHFWFNFHVTKDRINTGERQETDWKIFA TYLMMKKV*ISRKCYNYSYKLVRRKQLNR KWAKEKNKQSQKKQSQG*TRTVQPO* NKRNAD*RYLSPISLAKSNKLN
7278	15329	A	7943	1	400	ESRLICQOMYMGEPFGCSCCEKAFSNK SYLLVHQQTTHAEKPYGCNECGKDFSSK SYLVHQRIHTGEKLHECSECRKTFSPHS QLVIHQRIHTGENPYECCCGKVFSTRIDQ LVSHQKTHS*QKPYVCNEW
7279	15330	A	7944	46	364	SHLPNSSFEOKYAYEFVPGYQKHYSLSK FPWPFFAEMEKLLKFKWKS*SHITEAIL RRKNKVGDLTSLSDVKS*RYDNQLLSV *Y*YKHRRIGPWHGRPDHIL
7280	15331	A	7945	3	312	VCPSQLNKAITSITRCLRGVSSSSCYR RRARERGMEQTOREREROR*RRFORR GEERQGGKREPHSRARGGGSREER VREL*SDSDRSLEREALLR
7281	15332	A	7946	225	720	GLAHSVHRSSFWGHILQDSGPLVPPGA GQGSGLLAAEWVGKASPWGPAPACPT PHSEALVCSFRTSPPTPHAHGPVSGPA SVLAALRLGLHLRGCGGGTPTSPQTLQ DEEAN*GHRGHIGDRLLRLTQAPTAQPL WHRPWQKDWPNLLPRLPSFCRPPRP
7282	15333	A	7947	43	418	AYWGRKTPWLTSSFWPTGSPYDNGR PLCYSDSDAVLLCFDISRFPETGDSALKKV RLDQLSNL*LSMRKCKESGPCHECLLTS RNGSQGRKFAQGHTISYSSGTGTWVSL PHCLPFFLSH
7283	15334	A	7948	2	221	AGPGGSPHYVGSPLRISTRHLCAATR SLHLIDPLVLPLVDLKDRIIINLWGLQP LPPASLLQPTALYS
7284	15335	A	7949	1	409	SPGTCGRRPQTM/PPGAPDFAVEGRSLG LSPSQGGPAGAGGDAGQEDVROPPGEL AHGPLLPAQTG/SPGQGLWLRNPTS/G PPSQIGEGAEQDGEVADAPQICCKNVL KIRRRKNMHHKYRKL/VKTRFLRRKY
7285	15336	A	795	23	153	
7286	15337	A	7950	2	361	YSTSPAGQVGRILSPSQGGPAGAGGDAGP QEDVROPPG/EAGSRPAASCDDWIPG/AA GHVAPPQSYQCPSQIGEGGGTPTETQA DOVRREPEHLAEGGAKSPRRAGRPPR STCGANESG
7287	15338	A	7951	337	1067	NLKAHRRPFPNPLASGPFPLLAGADTW *GIGGWKPTSSLRVPGIOGSGASGERGRP SSPGG*RTSSWGAPSPAPAGPPCEGERP RLPGPADVL*RETADAAQHSRMQAK AGGRLPKERPSTAGKSGAPGASVSGGG HRSQGSSTRKLTLVLRPPSGTSGPSPSRP RSAATRFLRTAPAVLAPDLSALAQA PPQPKGDGFRGCCPWYTPQVQNRFTTQ GPDQSRADGSAQSRLRK
7288	15339	A	7952	127	440	SLRYTFLYTFPILEHIVLMQQTCLHGFI SIYLLHITFILQHPHTLHQICSSIQLY FLV*YFAYVYTFILYLSYFPLY*Y*AC FETDFSNEIGRV
7289	15340	A	7953	2	341	
7290	15341	A	7954	288	802	GVIMATSELSCVSEENCERRFAEAWAEW KDLTLSTR/AEREGCSLHEEDTORHETHY HQGGQVLAQRSPLWMMRMGILGRGL QEYQLPYQVRLPLPIPTAKMGATNEER EDTPIQLQELLALETALGGQVDRQEV EITKQLPPVVPVSKPGALRRSLRSMSQE AQRG

7291	15342	A	7955	72	488	HEAGSRMNGDHSNDSVFSQD*QDFVQH CQIGRVLTEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVAVFRELVEPRKQ DADSLQRAWTVGVCVE/ADDIMSSLT RRQICWYQKPGVGLDAINDANLLEACI YR
7292	15343	A	7956	1	236	GTRVVAFRELVEPRKQDADSLQRAWT GWCVELVRGVGQGRRSFLQWV*LGWE GBGWA*NLFLGCVCVSLSLVCYQGI
7293	15344	A	7957	317	1395	TGDQNSDVYAEQKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLEYNIGG KYNRGLTVVAVFRELVEPRKQDADSL PAGPWTVGWCVELLQAFVLVADDIM SSLTPPGNRSCWYQKPGVGLDAINDGN LLEACIYRLKLKYCREQPYLLNLNELFL QSSSYQTEIGQTLDLLTAPP/OGNVLDSEF TEKRYKSIVKYKTAfYSFYLPIAAAMYM AGIDGKEHANAKILLEMGEFFQIQDD YLDLFGDPSVTGKIGTDIQDNKCSWL VYQCLQRATPBQYQILKENYQKEAEKVA RVKALYEELDLPAVPLQYEEYSYSHIMA LIEQYAAPLPAPVFLGLARKIKYRRK
7294	15345	A	7958	3	484	ETPVPATSAAIRILLVLLPSLRTSPGRQGP SVDRVVPFPKFRPERSRHAAGPNVVR PQPKPHEVGGERRGRPNAPANSFRCSN LSPQYSLPKQKNSSTNP*IPNKPTPPASPS GRTDGLSLLQLPLPSGDQASPTMRSSPAI SSALEIEFGKTNPFH
7295	15346	A	7959	3	432	SGSSRPRGSAQPRPGGACGMAAPTSE* SPPAWQRPCCGGLHHCPCACVHPHRDSG GSVPAPAAACCHTPHGRPWPEFEGORPQT QPQPQGPWVRPVLTLFAGRVASVPLVS LCAWASGSQPGPPSGSGSALCTGLGAP PA
7296	15347	A	796	84	358	APRADAMGHFTEEDKATITSLWGKANV EDAGGEALGRLLVVPWTORFDFSF/GQ LSELHCDKLHVDPENFKLLGNVLVTRFA IHFKEFTPE
7297	15348	A	7960	2	331	VCKLQOPPLFAHSGSPNIHSQPCPSHAW GLLVLSGCVTLRESFFLCFALVLQRKS SSLGILSCPGSIFTALNSTNLVYGLFGGF CLVFF*DRVSLCHPGWSEVVQS
7298	15349	A	7961	25	364	LFYLYHLLFFGFLFLFLIKLGSSLFNFS KKSVL*FTNWIYFSLVLYFTDFCFIFIHFFG FSLYIHVGFPLKFIGHLSFI*ITVYGYQA QWLTPVPIPLWVAEVRGSL
7299	15350	A	7962	174	469	NGPP*RRKFFLSIPRKIWAAPPFF*EGPPL FTFFFLTESCSVA*PGMRVHNPGLLQPL PSGFKQFCSCLSPSSWDVRCPLPHANFF VVVFLVETEC
7300	15351	A	7963	65	2774	
7301	15352	A	7964	243	687	PHIPHSEENFEFLIVSSTGQTHFEAASF EERDAWVQAIESQILASLQCCSSKVKV RV*GGVEDWPQELTLVLTAIGNDTAEVV *EESRGV*EGGGAWRQSQCPQPSLQLR TDSQSEAVAIQAIRNAKGNISCAHASAD AWVEA
7302	15353	A	7965	3	368	PSDPEVAGDPPIPPGPPSCEVKKDKTSSI SLGWKPKPAKDGGSPIKGYIV*MOEGT DWKRVNEPYKLITTECGGNLKLRLK YRFRVKAVNEAGESEPRDTTGEIPATDIQ EEPEVFD
7303	15354	A	7966	3	78	FKIQNLIASTVRTVMVADCSRFDSPDLLL EAGDPATSPCRIFDLGSDNEEVVAIPDS HPKEGLSYSLSVLLGRSLPRCLISCYPL CLSVASGPHKFY*PHCQHRPHGDGGRLO PLROP

7304	15355	A	7967	195	345	NDISANPAIKFVKLPCKPTTEGWLNT* LYIHLVEYYATLKVCGDLVYR
7305	15356	A	7968	2	801	WRNSADVWVWYCGGPLLDTFSPNWSGT CTLVQFAIFPALAFLOPEKEKPOHRRKIRE APYGSFSDSQVYLDATGVPGVPHKFKFA QDOIAAGFESIFWVWTISKNDWINTYTY NQQRFINYTRDAVKGAEBQLGPTSQMA WENRMALDMLAKKGGVCYMIKTQCCCT FIPNNTAPSGSTRALQGLTALSINELAKN SGVNDPPSGWLERWFGKWKQJIASILTSL AARIGVVLFGC*VTPCIRGLVQRIETVL TKTSLSSFPFYSD
7306	15357	A	7969	113	362	WLHAPECFSCQSPQSPS*LGCCQGPESDP DPRSVVGPPLSQAGSPRPGGTVTILCCL WPHLAPLFLHWSFGKCTSLLVVQHIS
7307	15358	A	797	1	428	
7308	15359	A	7970	1	955	MTOPFNYSAFERIJFAGSPGHVTFSSERSL LVPRSHPEPKGEHYVTGSPTPENQRTS AAMSKPHSEAGTAFIQTOQLHAAMADT FLEHMCRLDIDSPP/RPLPATPKQPPW VPWRPSSAAVGP*SSPSLADVKSOVL VTCCLACHCHWQREEWVVLVTLGQGCLS VSEFRV
7309	15360	A	7971	113	716	RSLGPCQHSWQSSPGGPRPQPRPGLGP CTAQGRCHGTGDPDE/VTWGFRVTAMM GARGRYL/AHLVSRLEMGWGSYRVHFT RPOEVPSGRSNSPSHPAQ*GLWPLQHL RRTPPEARAAHPHISPSAC*VTICPLPPFH RPRDQDHLAPARSASPTVPPQPMVGRTP PTP*TLTQRGSPGPMSPAPILAANDSDK PSST
7310	15361	A	7972	244	1510	KFPKPKTPPHLGMSAITLWQHLQLLL DQKHEHLICWTSNDGEFKLLKAEVAKL WGLRKNKTMNMYDKLSRALRYYYDKN IHKVIGQKFVYKFVSFEILKMDPHAVEI SRESLLQDSCKVSPGEGRAHKHGLAV LRSTSRNEYIHSGLYSSTFMSLENPPDAF KAIKREKLEEDSPVPEEVRTVIREVT NKTDKHVTRPVVSLPSTSEAAAASFLA SSVSAKISSMLPNAASISSAPSSRSPL SPKSPLPSEHRSFLLEAACHDSDSLPLN LSSGSKTKSPSLPPKAKKFKGLEISAPPL VLSGTDIGSIALNSPALPSGLTPAFFTAQ TPNGLLTTPSPLLSSIHFWGSL*SKFVP LSPARLQGPSTLFQFPTLLNGHMPVPIPS LDRAASVLLSSNSQKS
7311	15362	A	7973	1	1230	
7312	15363	A	7974	3	358	LPAPGARPEWLLFAPVVGVLWCWTPQS IISLHFFLNVPVQTLSSSSSSSSP*RT*LP MTLS*VGAVSGFKPISRPPPHSGHNSPS LSQSLTILVSSNSPGSGKARGQCPQQA W L
7313	15364	A	7975	194	372	LFG*LKAPPGLKQFSGLSRRSGNYGPP PPPPVYVFFVLKKNGFPLVTQGGNLRT WG
7314	15365	C	7976	238	459	
7315	15366	A	7977	1	505	AGGAGEETHPQESQRQGCALPQEPPELYP PCPAIHPPPLPLGLGLLLFPLSPSLALSCMV PPPWAAQEGIMENHQPEKKRLWGPPP ANSPPPARPLNPHLFQAGTGCCPPPREVP TPSPWAEPPPLPGPPSEIAHLTTVRRGA ALANVNHNISDITDENKLNAFVTA
7316	15367	A	7978	39	141	LSIRGLNIIHKRQL*DWIKQDSTLCCP* EIH

7317	15368	A	7979	8	532	FNVLKKFKIRPPHAFQMFPMSQQKEG PETAESSELSHHGCLSL*R*EISWAPPTCG AFPSSAATLGAASVPLGASVPLGAAGMQR GRRGRHRIPGDTWGLLLPGAGWPTDAESPA HNWEP*TSVPPSRPGHSPGSAAGLQSGRP PL*GDCEWGRKAGKGHAY*VPGELHT LPLSDP
7318	15369	A	798	2	476	VNVEDAGGETLGRLLVVPWPTQRFDFS FGNLSASAIMGNPKVKAHKGKVLTSLG D/ASSAIMGNPKVKAHKGKVLTSLG AIKHLDDLGTFAQLSELHCDKLIHVDPE NFKLLGNVLVTVAIHFGKEFTPEVQAS WOKMAEDVTGVASALSRYH
7319	15370	A	7980	1	9786	
7320	15371	A	7981	27	13822	VPFSVAAAEPPAQPARAARPRGRSPGA APPQLAMDPPRALLALLPALLLLLL AGARAEEMLENVSLVCPKDATRFKHL RKTYTNYEAESSGVPGTADRSATRIIN CKVELEVPOLCFSILKTSQCILKEVYGFN PEGKALLKKTNSEEFAAAMSRYELKLA IPEGKQVFLYPEKDEPTYILNKRGIISALL VPPTEEAQVFLFDTVYGCNSTHFTVK TRKGNVATEISTERDLGQCDRFXPIRTG
7321	15372	A	7982	40	400	ELFGHIALQTIAYSILWDLKFLMRNLALG GGLLLLLAESRSEKSMFAGUMFMTLL HFDASFFSIVQINVGATMILVAIGFKTK LAALTLVVWLFAINVYFNAFTIPVYK MHDFLY
7322	15373	A	7983	1	900	FRAAGAGADGREPASERASRAEPPAVA MGQNDLMGMAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWQWSEQRDY IDTTWNCGYLLASSFVFLNLLQLTGCV LVLSRNFVQYACGLFGIIFLYTIAYSIL WDLKFLMRNLALGGGLLLLLAESRSEK KSMFAGVPTMRESSPKQYMQLGGRVLL VLMFMTLLHFDASFLFVQINVGATM MLVAIGFKTKLAALTLVVWLFAINVY FNAFTIPVYKPMHDFLYDFQFTMSV IGGLLVVALGPGGVMSDEKKKEW
7323	15374	A	7984	2	397	GRVGRPTRPTPTPTPTPTSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS PFFGVSPCVPEILKSSSPRIGCPRN*AFPFK RGNL
7324	15375	A	7985	5	230	IGNFKNVFSIVNITTRQNTSDIENLKNNT HV*NTVNSNS*YTVFSSACGTFTKISHLLR H*TSLDKF*KLDVLWS
7325	15376	A	7986	1	366	NPSIVGGODLCKGNYKTQJDLADGSS SSSSSSSSSSSSSSSSSSSSSSSSSPAGM KTPTSLIELGKTIQFL*NQKRV*ITKVL SKKPQKTENKTKLEAFHSTLCVLPNSYA TRL
7326	15377	A	7987	3	361	ISKKKFLKGFFFLGFF*KKPPFFFPFPP G*RGKKKIFFFWVKKNPLEKNFSLFLK KGGPPTPPGGFFFKKKKRAQGGGPPKI FFFFFFFFFFFFFGDGVLLCCPGWSAV
7327	15378	A	7988	2	359	GLPS*HYSPQPLPH*SHSTIAPKAEEKA NRKETHFSRSPQOISGRCPQDKSLAKV DFLDQLRPMVGHSLGRGPHLPKHMP PEQIQEEPEAHILPLVCEQLPLLPWEDF VYGSSR
7328	15379	A	7989	490	583	NH*SPMFGYCICVCFETESCSVAQAGVQ WYNRGLQPPLPGPKGFVCLSLPSSWDY RRRPP
7329	15380	A	799	23	349	
7330	15381	A	7990	1	129	OPGPEGKIRFFLKIPNLTPSGGKSLKFPLF KRVKPENCLSLRG*GCN*PGPEGKIRFFL KIPNLTPSGGKSLKFPLF/KRVKPENCLSL

					RG
7331	15382	C	7991	96	380
7332	15383	A	7992	202	499
7333	15384	A	7993	1	206
7334	15385	A	7994	2	349
7335	15386	A	7995	269	364
7336	15387	A	7996	1	314
7337	15388	A	7997	65	354
7338	15389	A	7998	1	957
7339	15390	A	7999	97	4146
7340	15391	A	8	190	383
7341	15392	A	80	44	377
7342	15393	A	800	17	535
7343	15394	A	8000	97	2728
7344	15395	A	8001	1	2295
7345	15396	A	8002	97	4027
7346	15397	A	8003	1	450
7347	15398	A	8004	16	303

7348	15399	A	8005	146	808	RIFSLCSAALSKKHGNPDCCSRRAPGNV PAAISRAPSLVLGLRARTVTRKGGLRPR KGEQGPSPSPDAVKGPAEPQGARFAP VYQILGAPRWEPLSTGGYTVSGSSPVV EVGTRANPRQ*ALPASHLPLASRSSSS SHLYTAAPPLVSRGSGSAGRALDSSFP QHS LAKPRPSAGLEAPGHWRGTGDDRR RKGTGGEHITFAVEALPASARP
7349	15400	A	8006	111	369	FGPGPL*SPLE*GSSSHSGVGK*NPSPFL PGGTPVFFKNPKFPFPWGGPPVSPFLFWG GETGNWGNPGGGTLEGPOVPLALPGG K
7350	15401	A	8007	85	394	DWRRRRRDRSSS*REDCCQSTYVRRKRAK SNCWCWSKEKSKHERDSIPRIEKKRMR SRSKGRDHENVKEKEKQSDSIGNDQEGS RSREKSNQDFDSKSNERDHI
7351	15402	A	8008	2	2255	
7352	15403	A	8009	1	1845	
7353	15404	A	801	17	533	
7354	15405	A	8010	12	450	SEPP*ITSVDPRVRGNASTGYGKIWLDDV SCDGDDES DLWSCRNSGWNDCSISED VGVICSDASDMELRLVGGSSRCAGKVE VNVQGA V GILCANGWGMNIAEVVCRQL ECGSAIRVSREPHFERTLHLMSNSGCT GGEASLW
7355	15406	A	8011	121	342	QNESVVMKTF LAFVKLPLKIQIKCIYI FYN*ELKLYSVILKYTF L YDFRPVCLVLS EIPFMSTWFLLVSTFR
7356	15407	A	8012	3	383	EKGPLSPKVLNHLQKAPRFKDFQQOD SQELLHYLLDAGRTE*TKRIQASILKAFN NPPTKTADDETRKVKTYGKEGVKMNF IDRIFIGELTSTMCEECANISTVKDPFIDI SLPHIEERVSKP
7357	15408	A	8013	18	280	KCRSRN*TA*FHRLNAKALSLLTLN VY QKKHLVEILSYHNCDSQTRNAPELDCLIR LQAQNIQQRHIVFLTGKESTFKLSTMNIG M
7358	15409	A	8014	3	271	FFLRQSHSVTRLECTGAI*AHNCNLCPGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFIHVQGAVLELL/NLMICPPQPPKVLG LQA
7359	15410	A	8015	609	921	FYLSEEAFFFFFETES/HLSPRLCESG MMSAHCNRLPGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCFHVQGAGQ LLA*/VICLPQPPKVLGITGA
7360	15411	A	8016	140	346	FPPICYLLEIGHSHSVVQAGVQWHRHSAQ YP*IHHEIKQSSCVSLMSS*HYSHVPPSPG NILL*RRGSCV
7361	15412	A	8017	2	348	AGVPPGNPPLWGGEGGGSPRGGGLKPG FPQGRGNFFFKKSQPTPPGGGPIPLPPW GGGAGGSPLPQGGRFQ*TKIGPPSPRGK KKKPPFPK KKKKKKKRKEKSEMPGMV LNA
7362	15413	C	8018	282	497	
7363	15414	C	8019	267	473	
7364	15415	A	802	160	434	LISVIPALWEAKAEDHMRSGVODQFGQR GKTPSLRKIHLRLARHGGMHL*SQLLGR KHKNRLNPGGKSCSEPRSHHCSSAWAT DQDSVSKK
7365	15416	C	8020	435	821	MKSRVIGWASGLKNEIFFFFFFWRDR YRAMLPRLVLNLLFLIEPPVSVLVKHWD YRHEPPPRXRLPFCMMRLGPHCFRFD ATYKQSVRTVAGLFSCLIKFSAHTNLD QRIWDLNPSGYFFN*

7366	15417	A	8021	121	818	HSKGSQVQSPGPEPSSAGPKPAQPOPT WGLAAPEEGREGGKCGRHCNRNPKLSQ PCAGVWSGRGAEEGGAGPDHPARPTGP PSSPSCSAGLPDL**GLKPPLEASSMDPGF VLEGGPRVREGVCQDGI*A*EELEVPSGP GSATSGAATLSDRRGGNGASQARLP*PS HWLPRAK*APQG*ASPGSPTACP AHPHS WKGGSAGPGMGRGRVVGDRGGAWGT GSHCNPTSS
7367	15418	A	8022	11	368	SFTCCFQMHTKLLCLNTLCLNTLSTGAFF LIVLTWLSPIAVRLSLNVISERPFILSVV DPCAHLVLSLLFVS*VLPQYVIALFVPH KRM*ETMYACLPCP*LLTACLEHNCISF I
7368	15419	A	8023	3247	5031	EGLRGTAALLTGGGRGP*GQPGQ/PGGP ASSPSAAPGPAAPACSTALWPTVSL RAPSPCFPQAGQGYGSWG/GEPPG/NSM ASGGDGEPLSQGLAPAGTGLARLQGP GHWAVSLWPSLRGPGPGQTQGSPLSQP HSALTGRGRSPGALGPPPPQRPQRPAP DPARQR*TPLTAGATITRQHLPOGNCR CSLLLLFLLLLFFLLFLFLFFLLFFLF LIFLLLLFLLPISLRNRSQWDLGGGEQ HVRHAHPDPVEQPRPFSVIGEVSEVLV GQTORHSSWEAHLKWRGHGHLGLEVI GPLNPRKAWMPHLLQLGPRDAEHRGH ESVVASSEGRVAPVGRPHRAALSRAAAL NEGTTGARGAAAAAGVRVMLRQROGGG EHGGQSSQGAVPREGVPRESVLLQLSL WACGVRLSPSRAGSRVQG
7369	15420	A	8024	87	567	KQPPPHGESAAWAATSRPGWWLLCRPA EGRTPGWTAFDVHPTLMQKLEPHSGNFS GQSPPCQLEALPRPSTCPLGSSRSGSGREG PLPPT*ELFPNGQSVRCQVGGPGYDSWC PGGPAPCPPTP*M*GPQALISAPGNK HPQLELGRRRGPERAPGPF
7370	15421	A	8025	2	347	KALACPPTCCVLGVHHAASAGGPFQHR PLVRRHIAPAGHQVTLSEHPTLCCHPKS NCTPCGSRRAVPTPLPAPGPAQCFVP GSHWLAWSPRGRSPPTSVAPTQPY*QPP SC
7371	15422	A	8026	3	359	HEGTVQQPQARGLYEDLLMSEGENDED DAGSDNDGDNFSAIHLSESGRSDA*FG GIRPKQSRMLKENTRMVMDNEERLLFY EGDCGEASHGLEDSCLSYGSYEDDPDK WNTQNTSFC
7372	15423	A	8027	2	424	
7373	15424	A	8028	3	456	PQTQREPTMVLSPADKTNVKAAWGKVG AHAGEYGAELERMFLSPPTKNYFPHF DLSHGSAQVKGHGKLVADALTNVAH VDDMPNALSALSDLHAHKLVDVFNFK LLSHCLVTLAAHLPAEFTPAVHA/SLDK ILASVSTVLTSKYR
7374	15425	A	8029	3	198	RQGSCSVTPQGQVWNNLGLL*P*PPGLK QSSYLSSPSSWDYRCVPTRLANSYFKFI* YVFFCLF
7375	15426	A	803	1223	1338	RWPLWSFIETKRRTL*SQLLRLRLQENL LNLGGGGCS
7376	15427	A	8030	1	346	LFAQPNPVTFKIRIYCMKSDIIDKVRARP PEWEKICANHVNKGLGSRIVYVLLLE* KNIVRLNQKANAQFYAGYKLRCRYKFS NKSIVNE*KVLLFMR*EYIPVSTHFICCVI L
7377	15428	A	8031	60	523	

7378	15429	B	8032	68	679	MGKEKXHNIVVIGHVDSGKSTTTGHLIY KCGGIDKRTEKFEKEAAEMGKGSFYA WVLDKLAERERGITIDISLWKFFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISGKNQGTREHALLAYT LGVKQLJVGVNKMDSTGIALITGDFPSLE PRHVSTWLQHVVTIPTRNWHKCYCVGV VANFLN*
7379	15430	A	8033	53	1497	KLPLKAKMGKEKTYTINLAVIGHVDSGK STTTGHLIYKCGGIDKRTEKFEKEAAEM GKGSFYAWVLDKLAERERGITIDISL WKFFETSKYYVTIIGAPGHRDFIKNMITG TSQADWCCPELLLLGVGEFEAGISGKNQ GTREHALLAYTLGVKQLJAGANKMDSTE PPYSQKRYEEIVKEVSTYIKKIGYNPAT VAPVPSISGWNNDNLEP*SANMPWFKG WKVSRKDWQCQLGTTTLEALDCILPPT RPTDKLLRLAFQDA*QNGGIGTVVGR VETGVLPQMGVTPAP*VNYVNGK*KS VEMHIEAFECKLFPDGKCAFNVKIN SVKDVURRGNVAGDSKNDPPMEAAGFT AQVILNHSQQISAGYAPVLDCHTAHIA KFAELKEKIDRSRGKLEDPKFLKSGD AAIIVDMVPGKFMCEVESFDPPLGCTAV RDMRQTVAVGVKAVDKKAAGAGV KSAQKAQKAK
7380	15431	A	8034	3	309	RFTGHYRMLSGEKPYEWIEWGKRLSSN TALTQHQRIHTGENPFCEKCGAFNQK ITLIQHQRVHTGEKPYEC*ACGKTRFWG GRFILHQNLPTQKTPVQA
7381	15432	A	8035	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGTQPPILKRA FSTK*KFD*/TINLASYQIFNL*ANCTK YVGCVFIEDYSGSESILCLFALYNSFDF VSLV
7382	15433	C	8036	310	546	MGIMSVPPHPQNVDPYLDGEKILHILGF NPEIQLWEILFEQDNGRAISWPLILGFFPL YSVPIGHQGRQLGRNLRGR*
7383	15434	A	8037	97	333	HRIRPICSQPYMEKVYVTKNNRYRILEID MNFPPPETEGVGGQVLEVPHEELKPS IFFFF*DRVSLCHPGWSAVVQS
7384	15435	A	8038	250	378	TESLYLNTIKATYEKFTANITLNNEMILKA FSLRLDTR*EHSLS
7385	15436	A	8039	280	759	GYINNGGRKRRTTELKPTPRSCRAEGGG VEGGPPACPPPTNCLQLRQLPHLGSCTEIS GQERE*GYINNGGRKRRTTELKPTPRSC RAEGGGVEGGPPACPPPTNCLQLRQLPHL GSCTEISGQERESGGGEGNSGPSNNRVH GFSKAGHGLGVGEEFEERQLWL*TGK QRPNIPIRRL*QASLHLPASPCQAPVPG ALSSPRRWQPPASHISCPSPRIFITS
7386	15437	A	804	1057	1354	SOHFGRLLWQVNHLSRGAPAQPGQGGKT PYLLKIQKLAGRDGRL*SQLLRRLRQE NRLNLGGGCGSEPRSCHTAPAWVTKRD SFSKTNKQTENNKRL
7387	15438	A	8040	I	401	ILVLDPPQPFPKLLSVKGNPEDFIFRQFF SPYPLFPFPFSYAKPPVSNETPPPHPRF SKLLSQGPADMPLPGSL*LLHYSACM LHHLLFCSLAHCAFRLLSCQGCQYLHGL MIIMFRSGHMHYIAGRV
7388	15439	A	8041	32	378	CVYTFIC*EISGLFPVWG*YRK*GSSSSS SSSSSSSSSHFNKYSCMFNF*NC*TVL QSGCTILLJHHIWMRVLSP*COQHLLAV FFSIAILLV*LHLTVIFICPQITS
7389	15440	A	8042	30	434	DGSSLCRPGWSAEQDCVSSGGEKKKKG RDNIEDACSSRPSR*LFEEHNLVHVAIE EDQLANIIDSAGSAYTILDEKLTLSKRFT RWVPKPLPSDQLQTRAIEFLMEILNGWD

						QDPEAFLQRIVTGDET*FYQR
7390	15441	A	8043	3	340	IPKPMAKLIPFMKYRDLHTNLLYSRMETG PKHIPMKTLLKIMEDIALGMDNLSLMNY LYLELTARNCMERDDMTDCEADPGLSR KRYSGENYLHCRIANRPV*GSAIESLAHR
7391	15442	A	8044	3	378	LIKHHVDFDLATNVQEEKIALEDFAQD LITAGHYAKGDFSRNNEVLDWRWRVKT QMIEKRA*V*KSQLQOFNRDVEDNEA WISEKLHTASDDSYKDPNTIQLCKLLSK HOKHQAF*TELPAT
7392	15443	A	8045	169	375	SSSSSLPHITNNPLHQOPLPQPAYTGA EGDPCALLS*YCLHLLNTEAVNNIITPLG KQPCCKRYDKV
7393	15444	A	8046	27	289	RSPKTHGGRRRWGMVRGTART/PCCPH RPQLP/COPLLGPPE*SLLEGRSSSLDSGM EESQTHAAPACRTWCSDGPR*PWMGPA ARCSG
7394	15445	A	8047	3	284	LFLWRRQLTLTENPRWWPTLGDQARD CSDACCPRHQLPSSHCSQTKSSPPEVFR FPKHR*GGVCAQSPHLPGGSSPSPPCP WPGSGILF
7395	15446	A	8048	459	1020	EPFRGAEQGGVPGKGQFETSAAPATPA REPERVPGAWPAPACACAEVAAAFAPA GGSLPAGPRPWERPRWAAGAP/QGDKG PGEAATSPA/RGDSGVPRGGGVPLPRH AGPQARRCEPTLPHDLYSQGVQPEHRAA G/LHFRSSGTI*APCTTCRAA*V*DSSIPE SREELRPSKKRSFRSEKFK
7396	15447	A	8049	3	417	VTGKAFQAQAQLIVHQIHTGKKPYDC GACGKDFREKVHLVRHQRTHTEKPYD RSEKGAFAFHKSDLIHHRVHTGEKPYEC CECGIAFSQKSPLIHCRJHTGERPYECIK CGKAFYHK*QLSIAHRAHTGDIAG
7397	15448	A	805	831	1082	SQHFGRRPRADHLRSGDRDHPAQHGETP SLLKROKLASHGGRHL*S*LLWRLRQEN HLNPGWGGCSELWRHCTPAWATSKNS F
7398	15449	A	8050	29	223	LIKKLASCGEHLYS*LLKRLRWEN*SSL GV*GCGEL*SQHCTPTVWME*GPAQKH KNKTKKLL
7399	15450	A	8051	194	372	ICQPLSLSTANHPVLCLCFTHKNLHIFIA ALFIAKSWKQP*CTSVDEWVWGLAPLY
7400	15451	A	8052	1	325	FFFF*DRVSLLLPKLECNGTSAHCNLR PGSSDSPASASSFFTHVAPLPQRHY*J FYDGTSLYAG*YSQNLLIYSAPRQFY HFKDMNKLDSIQRSYTKI
7401	15452	A	8053	228	481	QFRNTIFF*DRVSLLLPKLECNASIAHH NLCLPGSSDSPASASRVAGITGTCHHTRL LVFVLVETGFYHVSQSGLLETSQD
7402	15453	A	8054	175	431	LIVKMPFLK*SWKIF*MSK*VMLIH*GF VFLFVCFV*DRVSLLLPRELCNPGPISAH NLHLPDSSDSPASAYIKGFVRQLSHEE
7403	15454	A	8055	257	453	TKGGGYTQRTAQIFLFTYLFY*DGVSLL LPRIE*NGAISAHCNLHLPDSSSQKTK KNFCTQ

7404	15455	A	8056	277	1230	ISFHLSTFGAPSSFFFFMEFESLLPLRECN GAIHNRNLRLPGSSDSPASASPGWGD YRHVHPRSANFVFFFSRDGVPWCWGLV SNSRFPQMPPSRPPKVLDTGLATMPGLCL ANFCGRNRVSLMCPSSWSPFLKQSTCLSL PKCWDYRRAAVPGLFILFLRHRCPFLT QDEVQWCDHSSLQPSSTPEKHPPASASQS SWDQRHAPLHLANFVFYF*FFETESHVS TURLCSGAILAHCNCLCPGSSYPAPAS* VAGTTGAH/RRLANFFVFLVEMGFHHVR QVDARSLDLVCLRPKPKVLQDVSHH RPAYF
7405	15456	A	8057	1	467	FFFLF*EGVSLLLPRLECSGAISA/HCNLH LPGSSDSPASASQEDGITGVRYHAWLIL/ VFLVEIGHVHGQADLKP*QVHHPPLFF FFLRQSFWALVAQAGVQWCDLSSLQTPPP RVQGILLAQPEYLVAFTGMRIHITRLF FFFAFLVETGFHPC
7406	15457	A	8058	274	321	
7407	15458	C	8059	69	254	MDHLYNXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXIQXXXXERERNKNPPFAGD DIHSRGVQG*
7408	15459	A	806	144	441	GYQLPQDELVLGQFLQVSKIRFFSARK ITCNSHFLLLKFF*FPHICK*VSFSSERAA AADRAGASIPRIHINLQRLQENSIRGPK YSSHTVSADAW
7409	15460	A	8060	32	169	NPVPPYPLCPALVFVLLIYLLIY*PSPLL MSAPAGKGFLFLSL
7410	15461	A	8061	417	490	
7411	15462	A	8062	424	579	
7412	15463	A	8063	1	2157	GFQKRCRHRIAQLFVAGALVCCLVLLHL SAMISASRAAAARLVGAAASRGPTAAR HQDSWNLGSHEAFRLVSRDDYASEAIKG AVVGIDLTTNSCVAVMEGKQAKVLEN AEGARTTPSVVAFTADGERLVGMPAKR QAVTNPNNTFYATKRLIGRRYDDPEVQK DIKNVPFKIVRASNGDAWVEAHGKLYSP SQIGAFVLMKMKETAENYLGHATAKNV ITVPAVFNDSSQRQATKDAGQISGLNVLR VINEPTAAALAYGLDKSEDKVIAVYDLG GGTFDISILEIQGVFEVKTNGDTFLGG EDFDQALLRHIVKEFKRETGVDLTKDNM ALQVRVREAAEKACELSSSVQTDINLPY LTMDSSGPKHLNMKLTRAQFEGIVTDLI RRTIAPCQKAMQDAEVSKSDIGEVILVG GMTRMPKVQQTVDLFGRAPSKAVNPD EAVAIGAAIQGGVLGADVTDVLLLDVTP LSLGIELTGGVFTKLNNTTIPTKKSQVF STAADGGQTVEIKVQCQGEREMAGDNKL LGQFTLIGIPAPRGVPQIEVTFDIDANGI VHVSAKDKGTGREQQIVIQSSGGLSKD DIENMVKNAEKYAEEDRRKKERVAVN MAEGIHDTETKMEEFKDQLPQ/ADCECN KLKEEISKMRELLARKDSETGENIRQAA SSLQQAASLKLFRNGLTKKMG*AEFGS GSSGHWGNKREDSKGREKPVN
7413	15464	A	8064	500	752	

7414	15465	B	8065	1	1713	MALWRGSAAYAGFLALALTWRDRKKKF PGDDEAPGVKRTWAAGAGMRGRQWLR KRVEVVCTGRSANTVCAGVRAAGLVEK SPPPSLSRVGRFRFCGLDPCPDRLAEI STLAKMVECTGSTLGGGGYKKILKLTAD AKFVEEHEGKKDIDSPFTLSSASSWSSS SAYGSRPPGGFELKLGQQGESGDVKAT VAVLSFILSGAAKHSVDGKSLASELQQL GLPKHEAASPPCCYEKQSPQLKHLRVC SLRTWSLAARVAEGTAETVDPASAAPKTS VWSSRVCGRLLATISPSVNETDTGCGME DRRLVVCRPWRAQCHMKAWGWRHPE GGTHSGAPSAVLQALAVAIQLGGHLADP LLQVDPLSSCGAVSLDILVLYFYRTAS VPETVYVTKLKKLESQSLIQSNVLTMSN SMKAERGEEAAKEKSEASRGWTFMRKE RSCLIHNIMQGEAASADVEAAASYPKD LAKITIDEHYTKQVRCIQNSLLLEGNA EEVRKIIVCSMPFLKPGGPVTLVEEFLC ASKASVSAVSGWISKWRNWQEIQRQEE REDRASLPDLQASE*
7415	15466	A	8066	1	3053	MIRPGFVVSVMGVGVPGEPPYVPLCY TFWPBGHDLPASRAALAQGRSWSLHRMI GQDQSGRRRSRRQHAPGTSSGLRSAPGL TRAGFAPPEAVSPSHVIVDSADLAGPEKE IFGPWLFRAMYAPGVKRAWAAGAGM RGRQWLRKRVEVVCTGRSANTVCAGV RAAGLVEKSPPPSLSRMGRFRFCGLD CPDRVLAESTLAKMVECTGSTLGGGGY KKILKLTADAKFVEEHEGKKDIDSPFTLS SASSWWS
7416	15467	A	8067	330	452	
7417	15468	A	8068	3	347	
7418	15469	A	8069	3	1279	
7419	15470	A	807	165	1222	QSKRLNAKRYLLTDNVVKLKEFOQKKV AVACNLSGTKETYFRNLKKLTQNKLL KGELITLHLCESRDHVELAKNVYRYH AENKNFTLGEY*FGPLFVRLCYQLDLEE SAGELMKDQHLRGFFSDTLFNILMDML FIKGYKSAQLVLIEMKNQDVKFTKDTY VLAFAICYKLNPSFKICTTLREALLK GEILSRRASCFAVALANQONEMAKAVSI FSQIMNPESIAICNLNIIHQSNMLENLK TLKNAEAGNLKFKVRHFVSEEVLAKEV REKVKDVPALVAKFDEIYGTLHITGOVT TDSLDAVLCHTTPDRKSHITLLNKRMMV RRTFQPLSOSLLAE
7420	15471	A	8070	1	496	LLGVAPRASFAQEILR/DRASFHE/RPNLF ALKHPTSKAECTAEKCYRVTKGRGIFPS GSPFKSVTLEDGKTFIPGQGNAYVFPF VALGVIAAGRIHIPDEIFLLTAEQIAQEVF EQHLSQGRLYPPLSTIRDVSLRIAKVLD YAYKJNLDSYTWPKAMNVQTV
7421	15472	A	8071	228	448	

7422	15473	A	8072	3	1877	EGEDRGLPRTMGAALGTGRLAPWPGR ACGALPRWTPTAQOQCHSKPGPARPVP LKKRGYDVTRNPHLNGMAFTLEERLQ LGIHGLIPPCFLSQDVQLLRIMRYVERQQ SDLCKYIILMTLQDRNEKLFYRVLTSDV EKFMPIVYTPTVGLACQHYGLTFRPRG LPTIHDKGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCGYMGIPVGLKALYT ACGGVNPQQCLPVLLDVTGNNNEELLRDP LYIGLKHQRVHGKAYDDLDEFMQAVT DKFGINCLIQFEDFANANAFRLNKNYRN KYCMFNDDIQGTASVAVAGILAAALRITN NKLNSHVFPQGAGEAAMGIAHLLVMA LEKEGVPKAEATRKIWMVDSKGLIVKG RSHLNHEKEMFAQDHPESNSLDEVVRL VKPTAIIIGVAAIAEAFTQILRNMAFPR RAPITFALSNNPPRAECTAVEKCYRVTEGP RGFFASGSPF*GVLIWEMGKTFIPGGRG NNAIYVFPGVATGVIA/GGIRHIPDEIFL LDSRAKLPQEVSEQHLISQGRLYPLSTIR DVSRLIAIKVLDYAYKHNLVASYYPEPKD KEAFCKIPGSYTPDYDSFYTVDSYTWQAQ GKAMNVQTV
7423	15474	A	8073	325	587	
7424	15475	A	8074	124	343	
7425	15476	A	8075	32	487	SRRHGSSLWGKVNVEDAGGETLGRLLV VYPWTQRFFDSFGNLSASAIMGNPKVK AHGKKVLTSLGDAIKHLLDLKGTFAQLS ELIHKDLHVDPENFKLLGNVLVTVLAIH FGKEFTPEVQASW/QEDGDWSQCCPVLQ IFLSLPMMQSFQ
7426	15477	A	8076	3	573	FCPRGQEFEGEGNKLVPDAHGVISQRR KATITSLWGKVNVEDAGGETLGRLL VVYPWTQRFFDSFGNLSASAIMGNPK KVKAHGGKVLTLGRCCQSLDDLKGT FAQLSELHCDKLHVDPENFKLLGNVL VTVLAIHFGKDFTEPGCRASWQKMGD IFSGQCPVVLQIPLKPLGP*IQSFQ
7427	15478	A	8077	2	347	
7428	15479	C	8078	213	263	MGFHVSDQLDLLTS*
7429	15480	C	8079	637	1452	MGIAAASVLDGLAVVFGMHVPAQADG QDHPQELDHGHTHAHAEDDAQVLLQPR LHLHAALLVHRPVLVRVATLGPVAGG LAEALPHRKAVVLFPLDFAGTGVGDLR AIHEL SVCPVVEADPAAALHLSLHVVP GILQAVLATAVVVSNELSHDATHLLQL AHVEVEEGPGRHLGNEDQEQESKVQPO QAADLVGDADAQAEAHESDCPHADE IGPHPKRAGGLQDRDETALVGQDPHPE AQDHAQDKEDOVEEEKVFQDFDTG*
7430	15481	C	808	324	500	MGNWGRSSFLKLQNLVFLKMRSFDOA QWLTPIKIPALWEAAGGSSEVRSLRSW STW*
7431	15482	A	8080	226	314	
7432	15483	A	8081	2	350	KTLTFFFFRFEPHNLLTSMICGLVYNQP PQOHLVHILLKRRJWPQGNILGINKRPG TVAHTCNPSTLGGGGRITRSQVGRD*PG QHSESPSLPTIQKNYPGVMAAGACNPSYS GG
7433	15484	A	8082	172	287	IVYASEEKI*TFQEQGWPGAVAHTCNPST LGGRGGRITRSQDRDHPG*HRPP
7434	15485	A	8083	14731	15030	IAGCRPGAVAHSCNPSTLGGGGQ/TLR SGV*DPQGPQYGETPSLLKIQKLGRRGGR RLKSQLLREAEAGESLEPGRQFAVSRHR ATALQPGNRRARLHLKK
7435	15486	A	8084	1	193	
7436	15487	A	8085	1	346	
7437	15488	A	8086	3	522	

7438	15489	A	8087	1	840	HMELPYGTLTDDMRRRLNIPVLQDDGFL FLWVTGRAMELGRECLNLWGYERYVDEII WVKTNQLQRIJRTGRTHWLNHGKHEHC LVSSSGAQFNRWSTKKNHLSY*EKVQR CGFTR*SVILW*AGGVKENPQGFNOGLD L*CDRS*GMCFSGLQSFHIFVGQOLFV GCILPRFFLI*HINIGKGLGAILCNLKKQ LVFIS*VRSTSHKPDEIYGMIERLSPGATR KJELFGRPHNVQPNWITLGNQLDGIHLLD PDVVARFKQRYPDGIIISKPKNL
7439	15490	A	8088	13	323	
7440	15491	A	8089	3	218	
7441	15492	A	809	1734	1910	NWVGQQEGREFFQV*WATDLKSA*GE RIEIPDKLPKPGGQKWETGLRFLHFDISK WFF
7442	15493	A	8091	3	332	
7443	15494	A	8092	1	1431	MHKAGLLGLCARAWNSVRMASSGMT RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVSRRKQONVDQAVATLQOEGGL SVTGTVCHVGKAEDRERLVATAVKLHG GIDILVSNAAVNPPFGSINDVTEEVWVK TLDINVKAPALMTKAVVPEMEKRGGS VVIVSSIAAFSPSPGFSPYNVSKTALLGLN NTLAIELAPRNIRVNC/APGLIKTSFSRM LGEPEDCAGIVSFLCEDASYITGETTVN LSVMFTGGGVCRASWKEGGTGTPRTP RESPRQREPGETSSDTQENKVNGLPA NPORPAEAGPVRRKTNKGKIASTSAKD SINIRTKGDIHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRNQNVSSLPEYKS SPAREQNWENKFDLTDVFSRRSVITN YTQLKEHVLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTVQELHEGYTS FNS
7444	15495	A	8093	195	434	
7445	15496	A	8094	43	1601	SMHKAGLLGLCARAWNSVRMASSGMT RRDPLANKVALVTASDGIGFAIARRLAQ DGAHVVSRRKQONVDQAVATLQOEGGL GLSVTGTVCHVGKAEDRERLVATAVKL HGGIDILVSNAAVNPPFGSINDVTEEVW DKTLDINVKAPALMTKAVVPEMEKRGG GSVVIVSSIAAFSPSPGFSPYNVSKTVLLG LTKLAIELAPRNIRVNC/APGLIKTSFS RMLWMDKEEESMKETLRURRLGEPE DCAGIVSFLCEDASYITGETTVNLSVMF TGGGVCRASWKEGGTGTPRTPRESPR QREPGENQARSSPRMLRPEFPPEASST WMGPPEVGNRRPCKPARKVVGASPRAL RRLGSATRMLSRALRACVGARAPRPG GGRGAHATATVWSGLASAAALTARALL KRSACAAAPQRCGWRRLLCSSLGSRG QGGQAHRAHLRVVRYGTASVFTGPRL VASQIQHVPSGPAFRPGASHFATPSIQTL RQPLHLSPIAVPGASSAGAGA
7446	15497	A	8095	2	172	
7447	15498	A	8096	3	823	
7448	15499	A	8099	346	461	
7449	15500	A	81	457	489	PP*ITL*KTCSQARWLM*PIVTLWKA EVGRSLELRSLRPAWATRRNPSTKN/LKIS WGRQGSSELRSRHCTPAWQHSETPI
7450	15501	C	810	226	306	MITSPPPSALQKKEMLPVILRVPS*

7451	15503	A	8100	3	1560	SSLWRRQPELKA YRTMEYMAESTDRSP GHILCCECGVPISPNPANICVACLRSKYDI SQGPIKQVSI SFCKQCQRVFPQPGTWIQC ALESRELALCLKKIKAPLSKVRIVDAG FVWTEPHSKRLKVKLTQIKFVMNGAILQ QVFVVDYVVQSQMCGDGHESEKLDKF WKAVIQTVRQKTLHKKTFYFYLEQILKY GMHQNTLRKEIHDGLDFYYSKQHAQK MVEFLQCTVPCRYKASORLISQDIHSNT YNYKSTFSVEIVPICKDNVCLSPKLAQS LGNMNIQCVCIRVTSIAHLDIPNTLQVAD IDGSTFWSHPFNSLCHPKQLEEFVIECSI VODIKRAAGAMISKHHTLGEVWVQKT SEMNTDKQYFCRTHLGHLLNPGDLVLG FDLANCNLNDHEFVNKMNSDRVPDVL KKSVDRTKRQRNRNWKLELAREREN MDTDDEQYQDFLEDLEDEAIRKNVNI YRDSAIPVESDITDEGAPRISLAEMLEDL HISQDATGEEGASMLT
7452	15503	A	8101	1	171	
7453	15504	A	8102	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAALCLPGHCHGSRVEVYETHQCGGL VGLKLLRGREQSDRGSLGLT
7454	15505	A	8103	48	532	NI.MNICRGPCILPGAFFMRDLAAVA/SV GLPLVRRQAQVAAGRVLVVALFEGCG GLHSRLDGAAILPGHCHGSRVEVYETH APQCGLVGLKLLRGREQSDEGGSLGLT *DAQLGPGAHEHPEIRAWE*TAVIIISLVL SLEPRDGGGGRVARLGAREAINP
7455	15506	A	8104	3	421	AAEASVGLPLLRQAQIAAGRVLVVALFGG CGGLHSRLDGAAILPGHCHGSRVEVYETH QCGGLVGLKLLRGREQSDRGSLGLT*DG QLGPSAEDYTSSCPHLTGIV GLPGLDADGGGRVPRLGARESVRDT
7456	15507	A	8105	94	582	LSHPLPLGRQAQIAAGRVLVVALFGG CGGLHSRLDGAAILPGHCHGSRVEVYETH QCGGLVGLKLLRGREQSDRGSLGLT*DG QLGPSAETHQSVSPSLTVIISLILRL EVGDGEVAVSPRAGAREAIRNSAPLVVA STTFKPHQVPRGLSCLLLMPRDVVPVTS TAQSAGEPDRGSGSRGRG
7457	15508	A	8106	2	332	GSLQGLPGQSFSGGLPLGRQVRVAAG RVLVVALFGGFGGLHSRLDGAAILPG HCHSSRVEVTDQTH*CGLVGLELLRGG REQSDSGVGLGLTQDGLRSTSEDKVC
7458	15509	C	8107	30	653	MTCSPLLTLIHTCTGSAHVS/LTQPPSV SAAPGOQTITSCGSRNLVGNVFSVYQ QLPGTAPKILYDNDKRPSGVPARFSGSK SGTSAITLGLQTGDEANYYCGAWDTS LDNWVFGGGEVTVLGGPKAAPSVTLF PPSSEELQANKATLVCLISDFYPGAVTVA WKADSSPVKAGVETTTIPSKQSNK*YAA SSYLSLTPEQ*
7459	15510	A	8108	484	632	PWSHFRF*LTMRIFIEGLSAGRRA/WM PWGGRDRPSPGILQL*SPVGGVDRLEN* TFRCRHCLLHGAPFMRDLAAVAFVGLP LLRRQAQVAAGRVLVVALFGGFGGLHS RLDGAAILPGHCHSSRVEVTDQTH*CG LVGLELLRGREQSDSGVGLGLT*DGDL GPTSEDSKGATTSKRAAVIISLVVSLPR DCQGGRRVGRHGAREAINP

7460	15511	B	8109	27	1337	MAWTPLLLLFPLLLHCTGSLSQPVLTOSS SASASLGSSVLTCTLSGSHDYIAWHQ QLPGKAPRSLMKVEGDGSKYTKRGVDP RFGSGSSGANRYLSINFSQSEDEADYYCQ AWDSSTAHSDDTGRGCGIVGRPPVRCQWP LLLLGLAMVAHGLLRPMVAPOSQDPPD GASVGSRRSLRLWGRLLLOPSFORAD PRCWPRGFWEPSQLCYVFGTGKVTVL GQPKANPTVTLPFPSSSEELQANKATLVC LISDFYPGAVTVAWKADGSPVKAGVETT KPSKQSNKNYAASSYLSLTPEQWKSHR YSCQLQWGLGLGASQGGFLYEPVSQCV VFGGGTKLTVLGQPKAAPSVTLFPSSSE LQANKATLVCISDFYPGAVTVAWKAD SSPVKAGVETTTPSKQSNKNYAASSYLS LTPEQWKQAQKLQLPET*
7461	15512	A	811	168	258	GHLGPRQKQARGL*GHRAVQVLHNYVI PM
7462	15513	C	8110	54	410	
7463	15514	A	8111	1	175	
7464	15515	A	8112	1815	2017	GQGAVAHTVCNPSTLGGQGRITLRSVG QNQPDQHGETLSLLNISGVVWRAPVIAA FOEATOESLEP
7465	15516	A	8113	1109	1482	
7466	15517	A	8114	266	399	
7467	15518	A	8115	6	361	
7468	15519	A	8116	688	1127	
7469	15520	A	8117	2	311	
7470	15521	A	8118	2	51	
7471	15522	A	8119	203	365	
7472	15523	A	812	229	434	TEELKRCRQTLPSGCGVLPWRARLAVG VS/GRRRGSSPMLTPSAAPCGNPGSLTS NLPAAGCKPSCQAW
7473	15524	A	8120	152	314	
7474	15525	A	8121	11	380	RLHRFFLGESEQSPASSSSSSSSLTPSQ TROHGPLRSIMKDLHSDDYEESEYVDD NDNDSKMERPANR*KRTSRVTSLSQSD SESRTSS*PLHYEPPPLLYTNNQILEVE SPITHSL
7475	15526	A	8122	124	1924	ITAEGGRRRGGYHITPQOTSQPPGMASS CSVQVKLELGHRAQVRKKPIVEGFIHD WMVFVRGPEHSNIQHVEKVVFHLHESF PRPKRVCKDPFYKVEESGYAGFILPEVY FKNKEEPRKVRFDYDLFLHLEGHPPVNH LRCEKLTFFNNPTEDFRKRLKAGDPPNR SIHTSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS SKDSREHKSAFKEPSRDHAKSSKESKK PKENKPLKEEKIVPKMAFKPKPMSKEP KPDNLLTITSQGDKKAPSKRPISDSEEL SAKKRKSSSEALFKSFSSAPLLTCSAD KKQIKDKSHVKMGVKISETSEKKKST LPFDDIVDFNDSDEENISSKSDSEQSP ASISSSSSSSFIITPOPQQGFLRSMIKD LHSDDNEEEADEAEDSDNDEMERFVN RGSSRRRVLSLQSDGSDSESSASSPLHHE PPFLLKTNNDQSDWKWSPKQSK/SD* GKLKNGEC*QGLT*MELVGAFTGRFIDF EEERHILQIVNLIEETGHFHINTIFDFD LCSLDKQTVRKLQSYLETSGTS
7476	15527	A	8123	2	319	
7477	15528	A	8124	1	323	
7478	15529	A	8125	31	118	
7479	15530	A	8126	1	4938	
7480	15531	A	8127	472	4356	
7481	15532	A	8128	2	236	
7482	15533	A	8129	503	638	

7483	15534	A	813	1060	1542	GRDMVAPDASWKEASGCNAPARICPGQ AFRANGCSDPTLGIQHORI FR SRL SPKV L GPVGPQWELGGE*DEAPSAFSSHWEVL GRLLV GASGPSVKOEPAALERARVPGD AARROPRDRKGPPEGPCSEHPAPVRAP LVAGLGDAGSGAPRAKLGVM
7484	15535	A	8130	464	2848	GETGMSTALHTTTVAMRCMLGGGGGP TYGPPQWGHDPVHIMQHHLVPIQARLG SIAEIDLGVPPVMKTFKEFLSLDSDVD ETEAVKRYNDYKLDERRQOQMDFFLAH KDEEWFRSKYHPDEVGKRRQESRGALQ NRLRVFLSLMETGWFDNLLLDKADAI VKMLDAAVIKMEGGTENDLRILEQEEE EQAGKPGEPSKKEEGRAGAGLDGGERK TNDKDEKKEDGKQAEENDSSNDKTKKS EGDGDKEKKEDSEKEAKSSSKRNK HSGDDSFDEGSVSESESESGQAEKEE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEILCK RYPGFMRVALSEPQERRFRFRGVVTFD RSVNIKEICWNLQNI RL RECELSPGVNW DLTRVRNINIGITQH KQIVRN DIKLA AKL IHTLDDRTQL WASEPGT PPLTSLPSQNP I LKNITDY LIEEVS AEEEL LGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELKTP LLSVRESLEEEAQKMGKRDPEQEVEKF VTSNTQELGDKDWLCP LSGKKFGPEFA RKHI FNKHA EKIEEVKKEVAFVFNFLTD AKR PALPEIKPAQPPGPAQIHPGLTPGLP YPHQTPQGLMPYGPQRPPI LGYGAGAVR PAVPTGGPPYPHAPYAGRGNYDAFRG QGGYGPGRNRMVRGDPRAIVEYRDL APDDVDFF
7485	15536	A	8131	2	433	GETGMSTALHTTTVAMRCMLGGGGGP TYGPPQWGHDPVHIMQHHLVPIQARLG SIAEIDLGVPPVMKTFKEFLSLDSDVD ETEAVKRYNDYKLDERRQOQMDFFLAH KDEEWFRSKYHPDEVGKRRQESRGALQ NRLRVFLSLMETGWFDNLLLGHTKLI AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLDGGE RKTNDKDEKKEDGKQAEENDSSNDKTK KSEGDGKKEKKEDSEKEAKSSSKRN RKHSDDSFDEGSVSESESESGQAEKEE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIL LCKRYPGFMRVALSEPQERRFRFRGVV TFDRSVNIKEICWNLQNI RGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRVRNINIGITQH KQIVRN DIKLA AKL IHTLDDRTQL WASEPGT PPLTSLPSQNP I LKNITDY LIEEVS AEEEL LGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELKTP LLSVRESLEEEAQKMGKRDPEQEVEKF VTSNTQELGDKDWLCP LSGKKFGPEFV RKHI FNKHA EKIEEVKKEVAFVFNFLTD AKR PALPEIKPAQPPGPAQIHPVVRVVL PPGLTPGLPYPHQTPQGLMPYGPQRPPI GYGVTGGPPYPHAPYAGRGNYDAFR GQGGYGPGRNRMVRGDPRAIVEYRDL DAPDDVDFF
7486	15537	A	8132	1073	3545	GETGMSTALHTTTVAMRCMLGGGGGP TYGPPQWGHDPVHIMQHHLVPIQARLG SIAEIDLGVPPVMKTFKEFLSLDSDVD ETEAVKRYNDYKLDERRQOQMDFFLAH KDEEWFRSKYHPDEVGKRRQESRGALQ NRLRVFLSLMETGWFDNLLLGHTKLI AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLDGGE RKTNDKDEKKEDGKQAEENDSSNDKTK KSEGDGKKEKKEDSEKEAKSSSKRN RKHSDDSFDEGSVSESESESGQAEKEE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIL LCKRYPGFMRVALSEPQERRFRFRGVV TFDRSVNIKEICWNLQNI RGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRVRNINIGITQH KQIVRN DIKLA AKL IHTLDDRTQL WASEPGT PPLTSLPSQNP I LKNITDY LIEEVS AEEEL LGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELKTP LLSVRESLEEEAQKMGKRDPEQEVEKF VTSNTQELGDKDWLCP LSGKKFGPEFV RKHI FNKHA EKIEEVKKEVAFVFNFLTD AKR PALPEIKPAQPPGPAQIHPVVRVVL PPGLTPGLPYPHQTPQGLMPYGPQRPPI GYGVTGGPPYPHAPYAGRGNYDAFR GQGGYGPGRNRMVRGDPRAIVEYRDL DAPDDVDFF
7487	15538	A	8133	188	391	

7488	15539	A	8134	1	998	MAVMLHSAKWPLVPLVQOGLTMQPLPS KHISERSEDSRQPLYSVILAFYACGFAIL VFDKTDFOPKVKVRDKEGHYIMVKGSM QQEELTILNIYAPNTGASSFIKQVLGDPO RDLDSHTIIVGDFNTPLSILDRMLRQKIN KDIQDLNSALDQVDLIDYRTLHPKSTY TFFSAPHHTYSKIDHIGSKTLLSKCKRT IITNSLSDHSAIKLELRIEKFTQNHHTTWK LNNPLNDYVWVNNIEKAENKFFETNEN RDTMYONLWDTAKAVFRGKFIALANGH RRK*ERSKINTLTLQLKLELEKQEQTSHKA SRRQETIKIRAELEKIDS
7489	15540	A	8135	1	1674	
7490	15541	A	8136	3	361	
7491	15542	A	8137	3	174	
7492	15543	A	8138	3	326	
7493	15544	A	8139	1	82	
7494	15545	A	814	166	437	ADHLKSGV*DQPGQHGEILSLKLQ*FPF RGG AHL*SQLGRKLQENHLNPGGGG SEPRLCHWTPVRATVGDVSQVK*KSQD GPRAKLG
7495	15546	A	8140	2	372	
7496	15547	A	8141	1	352	
7497	15548	A	8142	2	395	
7498	15549	A	8143	4274	5256	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLOHKDDNPNLRLVPEVD VMCTAFHDNGETFLKK*VIRCL*FKIEK HGVTP*ANTL*KLP*QKYFQH*DLEVL* *FFKEVVFDTTKFYTAKNMIKIDILFIET GYNLSQKFKIDKFFNVFRYYVMVVID FVLVSNILPKFNHLCPTHHTHTLTLFST YLNDRDKTIMCKLSLIG*LLESLEPGGS GENVDYNYFCNIVCYRK/ADCFSLKFR YLYEIARRHPYFYAPELLFFAKRYKA TECCQAADKAAACLPKVLCTRIEKKSL SNLILSILWLDLGLTSV
7499	15550	A	8144	23	136	
7500	15551	A	8145	1	248	
7501	15552	A	8147	3	231	
7502	15553	A	8148	30	217	
7503	15554	B	8149	49	754	MAGAAPRLPWSRPHGSCGWPMQPLQ GPGRRVAAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWEYLPSSGK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMWAPGVVT GALLQVNPAGPVHAAHQRPDKQNLFA IIQVGTWQISGPPALKRFGSAWHSRAFLT HCCTVTTRPCTTSRPQHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
7504	15555	A	815	3	238	SGDRDHPG*HSETLSLLKIQQUAGRGGG RL*SRLLRRLRQENGVSPPGGGACSEPS HHCTPAWETERDSVSKKKKKKL
7505	15556	A	8150	1	593	RQSRWREQLPRLSWRLVPRIMRLVAEC GRSRARAGELWLPHTVATPVFMPVGT QATMKGITAEFLDALGCRICLGNTYHL GLRPGPELWQKANGLPRL*WPSILLN GTAAVFQMVSLVSLSEVTEEGVFRSPY DGNETLLSPEKSVOIQNALGSDIIMQLDD VVSSTVTGPRVEEAMYSRSLWDRICIS H
7506	15557	B	8151	374	613	MTALDFLTNQFSEALSYLKPRTKESMY HSLTYATILEMQAMMTFDPQDILLAGN MMKEAQMLCQRHRRKSSVDSFSSL*

7507	15558	A	8152	2	1922	VETPPQGSVHSGHLSGVVGDPIHTGTGN AGERGPRGKGARVLALDSGGMDSSPSLP LIRTPESLLHEALDQCMTALDLFTNQFS EALSYLKPRTKESMYHSLTYATILEMOA MMTFDPQDILLAGNMMKEAQMCLQRH RRKSSVTDSSSLVNRPTLGQFTEEEIHA EVCYAECLLQRAALTLQGSSSHGAVRP RALHDPHSHACSPPGPGRQHLFLQDEN MVSFIKGGIKVRNSYQTYKELDSLVSQSS QYCKGENHPHFEGGVKLGVAFLNLTL MLPTRLRLLEFVGFSGNKKDYGLLQLEE GASGHSFRSLVLCVMLLLCYHTLFTVLG TGNVNIEAEKLLKPYLRYPKGAIFLF AGRIEVIKGNIDAVSDGGPGRGWGLGV SQTSRKSCTDILDRIDWGRGGGPREN QPESRRRRGPSGRAAWEDKGGGICGA WDFDWEI*DCSIAVEGGGRCRLEAEVR KAHLFRA*RLGWSLVPLHYSSLLEHF VTKNQSPRRGLLYSPTSCKT*EVKPGLE ARSPGSGWT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVAGAGWAPVRLTRCLQ AIRRFEECCAAQQHWKQHHMICYWEL MWCFTYKGGQWKMSPFYADLLSKENCW SKVG
7508	15559	A	8153	1	285	
7509	15560	A	8154	3	409	
7510	15561	A	8155	1	390	
7511	15562	A	8156	17	221	
7512	15563	A	8157	2	366	
7513	15564	A	8158	1270	1692	
7514	15565	A	8159	2	261	RPRSSSTS*SPH*PPAVAAAPSGAPPWG LSCPRFRPAPAAAPEALGQGPSTRG AAEVAGAAAGSRFPQFFSDQSRFCIKS
7515	15566	A	816	4005	4345	SQHFGPRRRADHLRSGVQDQPDQHGET PSLLGGRRGRITKSGDRDHPG*HGETPSL LKMQ/EKLAGRGGGRLWSQLLGRLRQE NGVSPGGRACSEPRSCHCTPAWLTEQDS VSKK
7516	15567	A	8160	44	463	
7517	15568	A	8161	2	318	
7518	15569	A	8162	1	349	
7519	15570	A	8163	38	368	
7520	15571	A	8164	43	376	LSMANGPPHCTECTAFPRESGKNCKVCVI FNTDGTLVAVWRTGQKADJISVSSKGLLH SFYLLKAVCLEFSPKNTAL*TLGPYSTK DATAGIPNLQLYDKVTGTCCLKSFLQK
7521	15572	A	8165	22	192	
7522	15573	B	8166	852	931	MYSFSDPRTVKSGVDGAMLSRKEKPLG*
7523	15574	A	8167	1	202	
7524	15575	A	8168	2	330	
7525	15576	A	8169	1	281	AAWILKARALTEMVYIDEIVDQEGIAE MMLDENAIAPSSPTQAGRPTIGLRPS TQSGRPGTMEQAIRTPRTAYTARPTISS GRFVRLGT
7526	15577	B	817	1	9234	MGAPTLPAAWQPFLLKDRISTFKNWFFL EGCACTPERMAEAGFIHCPTENEPDLAQ CFFCFKELEGWEPDDPJEEHKKHSSGC AFLSVKKQFEELTLGFLKLDREKAKNKI AKETNNKKKEFEETAKKVRRAIEQLAA MD*

7527	15578	A	8170	1	769	QAAWILKARALTEMVVIDEIDVDQEGIA EMMLDENIAIQVPRPGTSLKLPGTNQTG GPSQAVRPITSHSEKPTIGFLRPSQTSGRP GTMEQAIRTPRTAYTARPTITSSSGRFVRL GTASMLTSPDGPFIN*SRLNLTKYSQKPK MAKALPEYIFHHENDVKTALEALASTE HSQYKDWVWKVQIEKRYRRLGMYREA EKQIKSSLKQEMVDITFLYLAUVVYSLD QVPTALNLFKQGLHKFPGEVTLLOGIARI YE
7528	15579	A	8171	2441	2706	FCFGLSCSLLPFFFFFFFEMEBSRVAQAG VQWCDLSSLHPLPGASSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7529	15580	A	8172	1258	1733	ILFWIQLNLECSSEFSWRLRQGRGIMLFFF PFLFFETESHVAQTGVQWCDLGLSLQP PPPGLSDPALASSVSWITDVRHHLWLIF VFLVETGFRHVGAQSLKLPISGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7530	15581	A	8174	196	390	
7531	15582	A	8176	84	307	
7532	15583	A	8177	3	383	DIKILIASPSATHIHKETTRATSSPYRDQT SRTASPNRAGKGVIEQTEKSHPRSPNVL AALSQRTTVPEELNPKILALQNAQRKR KMEHDGSLFQAVGI/DLACRL/LGQSM ESGLPQLTSYDCEV
7533	15584	A	8178	2	691	
7534	15585	A	8179	2	202	
7535	15586	A	818	1577	2233	SGCLSPSPSVGRQNSPVELGGAGLSRAG WAPQERGRAALLISQPNVIRGQPDWLP SVLQMRGLPLWDLGRPDVGRMSPGGR PGSCWATOLRFHISLPLPSWAGRSOS RLNPSTLGGRGOPITRSQDRDHPCHGET LSLLKIQKISQACW/R/CACSPSYGRLRQE NGVNPGGGACREQRSGHCTPAWATEQD SVSKKKKKSGSTIRLKHILHKI
7536	15587	A	8180	1	62	
7537	15588	A	8181	116	333	
7538	15589	A	8182	55	351	QWSYLPQVMFTGENIPVPHVYSNGHI CLSILTEDWSPALSVQSVCLSIISMLSSCK EKRRPPDNSFYVRTCNKNPKKTWWYH GKFEHRDIHKGKKM
7539	15590	A	8183	3	474	DGSIAMSMQRLQKELLALQNDPPPGM TLNEKSVQNSITQWIVYMEGAPCTLYEG EKQQLLFKRRRYFPDSSQGMFTGENIT DHPHVYSNGHMLCLSLTKNWFPALSVQS VCLSIISMLSSCKEKTTHDHPNSFYVRT CNKNPKKTWWYHDDTC
7540	15591	A	8184	1	232	
7541	15592	A	8185	3	367	
7542	15593	A	8186	1	203	
7543	15594	A	8187	2	333	ARVKRLGMFNIQCHCKLSSWVLLMKYL GNATAIFFLPDEGKLQHLNELTHDIITK FLAETPCLHFKLSITGTYDLKSVLGLQGI TKVFSNGADLSGVTEAPLKLKSKAD
7544	15595	A	8188	1	853	EYRRFLVDRHLQLTGNGNGLFSEGLYL DKFLEDVGRLYHSEALTVNFGDTTEEAKK QINDYVEKGTQKIVDLVKELDRDVTFA LVNYIFFKKGWERPFVFKDTEEDFHVD QVTTVKVPMMKRLGMFNIQCHCKLSSW VLLMKYLGNAATAIFFLPDEGKLQHLNE LTHDIITKFLENEDRRSASLHLPKLSITGT YDLKSVLGLGUTKVFGRGSOHEKRRRT EATKECKRTQNNRGTERVATAT*THNQ KRKRAQQGNTREKENGKORQEGPFVFL MIEQN

7545	15596	A	8189	3	157	
7546	15597	A	819	151	454	FQKIGPGAVAHACNPSTLGGRRRIITRSG GRDHG*HSETPSLLKIQKLAGRGGCL *SQLWRLRQENGVNPPGGACSEPRSRH CTPAWVTERDSVSKKK
7547	15598	A	8190	3	362	
7548	15599	A	8191	3	333	
7549	15600	A	8192	174	361	
7550	15601	A	8193	1	1143	VRCRPRVNSRVDPVRMAAVFLVILYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSSEETQFS TRVFKQMQRQVKNP FGLEITNPSSASITTGITLTDLEDLSLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYVFII.SSDIPISTEN*T SYG*SVANLLJLJLILEACLLQNKHISPC RTCSVYRISVSGTGACFRLIYPLALJRL LMDKVPLTY*SLGY*KHVYCFRISTPQA LEDALWSEYLYQEQHFIKDSKEEYICQ LPRDINIDDFGTVPRSRYPLVALLTSD DDREIYDIISMVSVIHPDRTYKLSCLRYL QYLLLAQQQFHDLKQLFMSANNFTPS NNSSSE
7551	15602	A	8194	2	499	
7552	15603	A	8195	3	486	
7553	15604	A	8196	80	1281	LPAQKLDTCDEDETTALVCDNGSLV KAGFAGDDAPRAVPFISVGRPHQGV VGMGQKDSYVGDQAQSKRGILTLYPIE HGIITNWDDEMEKIWHHTFYNELRVAPEE HPTILLTEAPLNPKANREKMTQIMPETFN VPAMYVAIQAVLSLYASGRITGIVLDSG DGVTHNVPIYEGYALPHAIMRLDLA LTDYLMKILTERGYSFVTTAEREIVRDIK EKLICYALDFENEMATG/APSHPMEKS YELPDQVITIGNERFRCPHTLAFQPSFIG MESAGRHETTVNSIMCKDIDIRKDLIYA NINVMFGGHPRLYPWEFADRMQERDSP ALAPQAPMEDQGFIRPRRSKAYSIVWIG RLPSWPSLSHLPSKMWITEAGSTDEAGP FPSSNRKCF
7554	15605	A	8197	2	228	
7555	15606	A	8198	1	369	
7556	15607	A	8199	1	416	
7557	15608	A	82	999	1523	WEMVEIWSYSSSEQEHQIKLSYQRIKPL PHAHWWFNPGLPPEASK*PPG*TLGI FLGKKA*LOTPLNYIRLENMQPRHGG CPVIFTLWKAEVGRSLELSRPAWATR RNPSTKPNKLAGGARAIL*SPGTPEAEV GGSEPP/GRQGSSLELSRHCTPAWQHSE TPIS
7558	15609	A	820	1362	1647	
7559	15610	A	8200	2	396	
7560	15611	B	8201	1	555	MESTYMPINSGLDKENVESECKAYNPRP FCKTYTMDKQPLNTGEQKDMTEPFTDLI TKIEEMSELSRCEELHLHAENLSRRV WELLMLLPTCPNMLMAFQNISDEQGSYS DLYPDSDDSSQDVENSKNWSCKISSN FTSSSKTIWYFSAVWEQLRYTLDNVNL KKSVIHQKDSSEYED*
7561	15612	A	8202	1	901	
7562	15613	A	8203	1	407	

7563	15614	A	8204	2	1149	FDLELPRARPOLVNSPGADKMETNSSLP TNISGGTPAVSAGYLFDDITYLVFAVTF VLGVLGNGLVIWVAGFRMTHTVTTISYL NLAVADFCFTSTLPPFMVRKAMGGHWP FGWFLCKFVFTVDINLFGSVFLIALIALD RCVCVLHPVWTQNHRTVSLAKKVIIGP WVMALLTLPIRVITVPGKTGTVACT FNFSPTWINDPKERINVAAMLTVRGIIRF IIGFSAPMSIIVAVSYGLIATKIHKQGLIKV QVRP*GALSFAKKAFFLCWSPYQVVA P**PTSQESREVNCKGMYQKLGIAIVDV NKVPLAFFNS/CAFNPMVLVFMGIQDPR ERLIHALPAKSGRGLTEDFNPKVPVQLT NSTLPSAEVALQAK
7564	15615	A	8205	2	386	
7565	15616	A	8206	2	294	
7566	15617	A	8207	541	711	SEVSAMVFLFFFF/CFEMESRSAAQAGV QWCNLSLQALPPRTFFCSLSLPSSWD Y
7567	15618	A	8208	2	1730	
7568	15619	A	8209	1	183	
7569	15620	A	821	10289	10708	SQHFGKLRQEDHLRSGVREQPGQHCKT PYLLKIQKLARRSGACL*SQLRRLRQEN RLNPGGVGCSEPLRHCTTAWTLQ*DPV SKLLKKKYIERQRYHQHMKHFWSTKIQ YVCMGD*HRSVEKQIQLCMFVFTHTY
7570	15621	A	8210	3	320	
7571	15622	A	8211	2	198	
7572	15623	A	8212	110	363	
7573	15624	A	8213	1	849	
7574	15625	A	8214	1	993	
7575	15626	A	8215	23	627	
7576	15627	C	8216	79	171	MDISGTKCDFTVQVQLRFLSETKATQP TN*
7577	15628	A	8217	3	630	
7578	15629	A	8218	1	188	
7579	15630	A	8219	1	2295	
7580	15631	A	822	662	766	
7581	15632	A	8220	143	5972	
7582	15633	A	8221	3	753	
7583	15634	A	8222	57	272	
7584	15635	A	8223	1	218	
7585	15636	A	8224	180	293	
7586	15637	A	8226	3	145	
7587	15638	A	8227	16	546	QLNGRSIRHEVMSHRKFSAPRHGSLGFL PRKRSSRIIRKVKSEPKDDPSKPVH.TA FLGYKAGMTHIVREVDRPGSKVNKKKEV VEAVTIVETPPMVVVGIVGYVETPRGLR TFKTVFAEHISDE/CRLLPKQKAHLME IHHVNGGTVAEKLDWARERLEQQVPVNP VFGQDEMDVI
7588	15639	A	8228	3	348	TRHIVREVDRPGSKVNKKKEVVEAVTIVE NTPMVVVGIVGYV/EIPR/GLRTFKIVFA EHISDECKRRFYKNWNKSKKIDLKFDIT SKLCHGRLQTMEEKKAFMGPLKKDRIA KEEGA

7589	15640	A	8229	1	956	VNHAPAHASDGVMSHRKFSAPRHC/SLG FLPRKRSSVRHRGKVKSPFMDPSKPVH LTAFLGYKAGMTHIVREVDPRGSKVN KKAEVVEAVTIV*DTTHWCLLGIVGYVG NPSEGLRD/TFKTCLLLEHISY*MPRRRL *RIWALKS*EGRPLPKYCKEIGKDEDVKG KPAWKDFQOH*KKLLAQVHPCSAQ QMRLLPLRQKKAHLMEIQVNGGTVA RESWDWAREKLEQQVPVNVQVFGQDEM JNVGVTKGKGFGKGVTRSWPTN*LPFK AHLGLSRVACFGAWHPARAHWHVAR AGQKGYQPYTLLVHSDL
7590	15641	A	823	749	853	
7591	15642	A	8230	1	375	
7592	15643	A	8231	1	399	
7593	15644	A	8232	2441	2706	FCFGLSCSLPFFFFFEMESRSVAQAG VQWCDLSSLHPLPGSSNAPASARVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7594	15645	A	8233	1275	1749	ILFWIQLNLECSFWSRLRQGRGIMLFFF PFLFFETESHVAQTVQWCDLGLSQP PPPGLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVQASLKLPTSGDLPTLA SQSAGITGVSHYA WLIFVFLVETEFHHV GQAGLELLAPSDPPA
7595	15646	A	8234	3	200	DALAFVIKVFAAEVDGCSVTGGS/HNH SVASGSNHRTRFCFTVYLSSIVSWR*SC RRCRGRGAF
7596	15647	A	8235	1	1214	
7597	15648	A	8236	24	183	
7598	15649	A	8237	256	491	
7599	15650	A	8238	243	385	
7600	15651	A	8239	3	403	SCYGFNVGRQVSDGGQLRSINGELYAP LQHNNHVNVEGATHKQVVDLIRAREKEL ILTVLSVPPHEADNLPSDDSLGQSFYDY TEKQAVPIVSPRYKHVEQNGEKFVVYN VVMAGRQLCSKRYRQFALHQN
7601	15652	B	824	1	859	MDVVDPDIFNRDPRDHYDLLQRLGGGT YGEVFKLFAKCYTCHITYDAMRVLFML TKSGSQLPRLKEKGKWEYRTVGGRSAN VHYIIVYCESVHFLPILLPTLSTKLSSPEL NAAASYVPPPIIHIDTAASMCYLFHMY VGVRAAGGGIGDEIEDPAGDEYELYRVVF DIITFFVIVILLAIQGLIIDAFGELRDQ EQVKEDMETKFCFCIGSDYDFTTPHGF THTLEEHLANYMFFLYLINKDETEHT GQSRALCRAFRGMRETGDVRLAKELA V*
7602	15653	A	8240	1	706	
7603	15654	A	8241	323	496	
7604	15655	A	8242	1	483	
7605	15656	A	8243	2	740	
7606	15657	A	8244	249	390	
7607	15658	A	8245	24	426	
7608	15659	A	8246	1	240	
7609	15660	A	8247	935	1150	
7610	15661	A	8248	190	584	
7611	15662	A	8249	201	364	
7612	15663	A	825	65	290	HLVSSLAKGKLA VRQAPFARVPPQHP*V KVKNDPDLQPPPCRGLAKVGTGCRVL GTEGLPHLKDFPIRAATOPL
7613	15664	A	8250	1	1122	

7614	15665	A	8251	1	1197	MHKDWVVFVDSGEHKEALLHELQLCDSTLKPAAHGOTRI.VDLSLSEHKAQGTGAHVYEEERHQVSVSR.TDDVGCVPSECLARACGAEVGCSNIAYPKLVMLMPLI/GPSGAGDFPGPPLSNPLFLEAFDPSGLRGLMIAVMLAALMSSLTSIFNSSSTLFTMDIWRRLRPRSGERELLLVGRTPGPSPAPQSRSLFLLPETPPLERYLLGLVVMDLWLIVIVALIGVSVAWIPVLQDSSNGQLFHYMQSVTSSLAPPVTAVFVLGVFWRRANEQGAFWGLIAGLVVGATRLVLEFLNPAAPPCEPDTRPALVLSIHYLHFVGALFALSGAVVVASGLLTPPQSQVQIENLTWWTLAQDVPPLGTKAGDGOPTQKHAFWARVCGFNAILLMCVNIFFYAYFA
7615	15666	A	8252	1	624	
7616	15667	A	8253	88	627	
7617	15668	A	8254	3	437	
7618	15669	A	8256	220	415	
7619	15670	A	8257	2	359	
7620	15671	A	8258	1	1270	RTRGRTRGELVLESGEWRWLLERCRPGGAVAILLLAAVVSICAVSQHAPPWTECDRKSTYPPSRPTYRGAVPWDI/HVLDLPPYKRWDELM.LMDAPV/LSKVIVNSLKNNMINTFVPSGKIMQVDEKVLPLGLGNFPGPFEEMKGIAAV/SLDIPLGEISFNIFYELFTICTISIVAEKKGHLLHGRNMG/GVFLVWNINMNDTVWITEQLKPLTVNLDQFQNNKTVEKASSFAGYVGM.LTGEKPLGFLSLTLNERFSINGGYLGILEWILGKKDAMWIGFLTRTVLENSTYEEAKNLLTKILAPAYFILGGNQSGEGCVITRDRKESLDVYELDAKQGRWYVYVOTNYDRWKHPFFLDDRRTPAKMCLNRTSQENISFETMYDVLSTKPLVNLKLTVYTTLDVTKGFETYL.RDCPDPCIGW
7621	15672	A	8259	108	988	TARGSKARSOGTRWSLGPSSSGGRRSWQPLVISRAV*H*GKSSRHOPLYSGHPLHG FVSHRGGPQVROPAAT*RPACASKLVQFWH*WGP*LGSGQALAGHLCRTGCEESHHTCFPGYVK*RL*ALPGGRFV*VGERARARPDEPREAACGCTEEQHTDPAHPRLKRDCLPSVSQAAVSTIASAGFPFAW AASAGFPFTWPNLSPATLGMQRSSCALTFRRICRFLSDNKWMQRSITSMALWICN GSGGSTSORVSFSSTLGGTDCSSSLSKSETFPATSFSRLR
7622	15673	A	826	230	652	GLSAPVAADFSLEPTALHASIRPEADLQ P*PRTPPLRSWGS/PGVRSPTGDPSPGVT RLHRAIHQPITISSSTWVCTGPLCSVLIS PSQOESAPKRTVLEEHLRPRPQAHADA HSGQLRAWFGQQREHGEASQWQH
7623	15674	A	8260	1	319	
7624	15675	A	8261	19	373	AVFFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFFSSSSSSFFFFSFFLFFFKLKELRLVI *PLNPEN*ESCPLFSFVNLDM*TFKDKR WKVNWARSTSRQQLLESARTKSWAERE GTRWRAW
7625	15676	A	8262	227	420	KNFLPNCSAKELFFFFFFFFFFFFLLLLLL L.YKFM/*WFKHLAFPLLAFLSPTAL* RGVFHH
7626	15677	A	8263	400	582	
7627	15678	A	8264	1205	1681	
7628	15679	A	8265	1	403	
7629	15680	A	8266	3	397	
7630	15681	A	8267	36	446	

7631	15682	A	8268	1	453	RHERHERHEELMTEGEDQFDVGSAAAR KEIIRNKIRAIKGMARVFSVIREESVLT LKGLTPTGMLPSGVLAGGRQTLQSATVE AIEAEKIRGFSPPHRCISFEAKGLDRIN ERMPPRKDAVQQDGFNSLNTAHATENH GTGNHTAQ
7632	15683	A	8269	644	809	
7633	15684	A	827	108	1102	RMTQCLSECLICKFLSGKVTLGQAQWLT HVIPALWEAEAGRSPEVGRSRPSLAGMV KSRL/VLKIQQKKKKKKISRAWWHMPV VPATWEAEAGELPEPKAEVAARRDRA TALPAWGSQADGK*G*GISAPVAADPSL EPTPALHASRRPEADLP*PRPPPLRSWG SQVCEVPLGTTPPGSPASQSHPTSPSYL PLPGSPARVPCARCSSRPASKRARQSPAC GRAPTSPAARGSRRCQRAAQSLSARSA RTRTEASAVGTAPAAGRTGRGGPDQOE FVHGLVPLKQDNGRLQCTAQERAPRAR TLRHRTARPAAGVLDLGGNHVLPQO
7634	15685	A	8270	37	235	
7635	15686	A	8271	2	230	
7636	15687	A	8272	516	693	
7637	15688	A	8273	2	434	
7638	15689	A	8274	3	417	RQAWHKAGLHAADWAGRARSLLDGSH TSWSAGSIPGKHQYQAVGLHLWKVEKRR VNLPRVLSMPVAVGTVCHAYDREVHLR CELSPGYVLAVPSTFLKDAFGEVLLRVFS TGRVSLSAIRAVAKNTTPGAALPAVERG T
7639	15690	A	8275	308	614	HGSHGIALRPQSQAQPLVHKVCCFQEE QMGAPGKGPECCGSRICRLAQQLGFHL VCLDRV*HLAPHCSLSLHCGPHDVPFL VAKRSFLGLEPLSSSP
7640	15691	A	8276	11	161	
7641	15692	A	8277	163	437	
7642	15693	A	8278	1	660	
7643	15694	A	8279	2	1246	SCSAPEELCSLRPTLGARRGNCEAKVTG DRAFOICSDVLGAPPMLAARLAVCLRTL PSRVFHPAFTKASPVVVKNSITKNQWLLT P'SREYAT*T*RLGIRAWGELGQELKEGS IGNHSMGKNILKFDSDGEWLVAGGA/ VVGLGSICAYLLALGL/GLN*DLGAI*KR L*FGPYQVKDRNHSTYM*YLAGGVGLGT A/LSAIAIQONRLFFMELP*WRRLLGWTI GVDLWQPWLGAGMLVRSIFYPQSPGPK HLAWLLHSGVMGAVVAPLTILGGPLALIR AAWYITAGIVGGLS/TVAMCAPSEKFLN MGAPLGSAGVSVFVSSIG*CFPPPTD/T VAGATLAYSVAMYGISFLSMFLLYDT PESKSSRAEVSPMYGVQKYDPFNSML/S IYMDTLNIFMRVATMLATGGNRKK
7644	15695	A	828	241	1104	
7645	15696	A	8280	325	432	
7646	15697	A	8281	1	293	
7647	15698	A	8282	1	366	
7648	15699	A	8283	780	891	
7649	15700	A	8284	44	155	
7650	15701	A	8285	336	414	
7651	15702	A	8286	1	294	KLDTVVEPIRGLNMSEFVCMNSARPVY YDLIAVSNHYGAMGVGHYKAAVYLFY QRDRDEFYKTPSLSSSGSDGGTRPSSQ QGFGDDEACSMDTN
7652	15703	A	8287	302	486	
7653	15704	A	8288	1	620	
7654	15705	A	8289	1	804	
7655	15706	A	829	95	462	

7656	15707	A	8290	164	399	
7657	15708	A	8291	1	2226	
7658	15709	A	8292	876	1102	
7659	15710	A	8293	2	426	
7660	15711	A	8294	1	128	
7661	15712	A	8295	33	279	
7662	15713	A	8296	198	779	
7663	15714	A	8297	1	441	
7664	15715	A	8298	132	700	
7665	15716	A	8299	303	617	AKPSSGFECRSRAFLSKECGKQLGPSSSS ALSLSGSGFFHLGAPS*PRTPRKSDGARCR PHPPSSMIGVQLLLGGCLAQHPHHRACL LDADVPVTISIKHVKGQP
7666	15717	A	83	2	448	LHCCPLQLKMVACRAIGILSRFFAFRFLR SRGYICRNFTGSSALLTRTHINYGVKGD VAGARINSTNSKVNTLITELQSQFSQVM NEILSSYQIRRAVLISKPGCFIASSDINIL TACMTL*EVSHRSSEAQIIVQKLEMTTSL IVA
7667	15718	A	830	2	648	
7668	15719	A	8300	50	257	
7669	15720	A	8301	110	179	
7670	15721	A	8302	187	571	
7671	15722	A	8303	2	150	
7672	15723	A	8304	227	857	GDSRSRVTRRQDTAWNAWASHCRRRLS ASSRSPLTGPASVGGMAATGANAEKAS HNDPCVRLNPNIAKMKEDILYHFNLT SRH/NFPQALFGDV/KFV/CVGGSPSRNEK PSSGCR/LG/ELGLDCPGRDYPNICAGTD RYAMYKVGPVLSVSHGMGIPISIMLHE LIKLLYYARCSNVTHIRITSGGIGLEPT VVITEQAVDTCFK
7673	15724	A	8306	1	714	
7674	15725	A	8307	225	382	
7675	15726	A	8308	2	862	FLSVLPHSRALLTPKRAPKKMAISGYVP VLGFFIIVLMSAQESWAIKEEHV/QAEF YLNPDQSGEFMFDFDGEIHFVDMARK ETVWRLIEFGFRASFEAQGALANAVDK ANLEIMTKRSNYTPITNPVPEVTVLNSP VELREP/NVLCIDFKTTPPVVNVTLWRNG KPVTTGVSETVFLPR/EDHFFRKFHYLP FLPSTEDVYDCRVEH/WGLDEPLLKHV EFDAPSLPETTENNVV/CALQI/VGLVGI IIGTIFHHSRELKRSNCRQKRGGLCKAQ WR
7676	15727	A	8309	2	223	
7677	15728	A	831	90	401	
7678	15729	A	8310	1	3252	MELSVTLVSRAPRGLPVFRQLNTAIAVS QMSSGQCR/LAPLIQV/QDQCSHLYHYTVK LLFKLHSCLPADTLQGHDRFHEQFHS RNFFRRASDMLYFKRLI/PIR/PEGPPNF LRASALAEHIKPVVVIPEEAPDEEENLI EISTGPPAGEPVVADLFDQTFGPPNGSV KDDRDLQIESLKREVEMLRSELEKIKLEA QRYIAQLKSQVNALEGELEEQRKQKQK ALVDNEQLRHELAOLRAAQLEGRSQ
7679	15730	A	8311	3	3253	
7680	15731	A	8312	1	673	
7681	15732	A	8313	177	393	
7682	15733	A	8314	177	400	
7683	15734	A	8316	1	473	

7684	15735	B	8317	549	602	MWWNSLDGIRNIVLSNPKRNTLSLAM LKSLSQSDILHDADSNLDKVIISAEGPVFS SGHDLKLETEQGRDYHAEVFTQCSKV MMHIRNHPVPVIAVMVNLATAAGCQLV ASCDICRGERODLFCHSWVPRKVALEM LLTGEPISAEALLHGLLNKGPEAELOE ETMRIARKIASLSRPGVSLGKATFYKQLP QDLGTDYYLTSQAMVDNI.ALRDRQEG TAF.LHKRKPVWSHEPV*
7685	15736	A	8319	272	364	
7686	15737	A	832	276	488	
7687	15738	A	8320	1	322	
7688	15739	A	8321	37	344	
7689	15740	A	8322	3	412	
7690	15741	A	8323	37	438	
7691	15742	A	8324	2	424	
7692	15743	A	8325	543	848	
7693	15744	A	8326	2	242	
7694	15745	A	8327	2	246	
7695	15746	A	8328	294	402	
7696	15747	A	8329	259	350	
7697	15748	A	833	186	537	IWFPLRRRKARQOEKSGLGAPRSPSHNY PPGYLGCLGKNTS*TYILDQSNIGKRVA AILN*ILGORKRLREKLSLSCQPKVEELEY RVAW/IP*KFGCLLLVSVKVNVDWCT WVY
7698	15749	A	8330	2	409	RPPFPVSSVPCGRDQLGVTLPSGRHSLL CCWVRIVFPESDGAP*MASFPVRVNEKEI GKLLNLVDHTEVVRDLTFAPDGLILV SASRDKTLRVWDLKDDGNMNMVLRGH QKLVSACAFSPDSSMLCSVGA
7699	15750	A	8331	453	684	SLRFVLSVFCQSLLLGKAESSKYDTRTP KAWKESAPELLGWAHSSGLTCDIKCC RARDLPWSGPKIHTSVMPSS
7700	15751	A	8332	1	92	
7701	15752	A	8333	67	301	
7702	15753	A	8334	3	276	
7703	15754	A	8335	1	564	
7704	15755	A	8336	1	364	
7705	15756	A	8337	3	103	
7706	15757	A	8338	1	744	
7707	15758	A	8339	3	266	
7708	15759	C	834	79	405	MIGGTPOMFFISGAKGQWSPSLQPPFRA HRSSPWAPSSKSTSGGTAAALSGLSKDY FPRTGDGVVELRRSDQRRHLPGCFTVL RTLFPQQRGDRDLQQLRIHELRL*
7709	15760	A	8340	481	637	
7710	15761	A	8341	1	3335	LNKFEIEVLCKNLALDINELKPGNNLKD KDRLKNLDEQLSAPKDVDKQPEELPITT TTTSTPATNTTCTATVPPQYQSYHDIN VYSLAGLAPHITLNPITPLFQAHPLKQC VRQAIAERAVQELVHPVVDRSKIAMTTC EQIVRKDFALDSEESRMRIAHHMMRN LTAGMAMITCREPLLSISITNLKNSFAS ALRTASPPQOREMMDQAAQLAQDNCE LACCFIQKTAVEKAGPEMDKRLATEFEL RK
7711	15762	A	8342	1	520	KMDSTPEPPYSQKRYEEIVKEVSTYIKKIG YNPDTVAFVPISGWGNDNMLEPSANMP WFGWKVTRKDGNASGTTTLEALDCIL/ PPTRPIDKPLRLPLQDVVYKIGIGTVPVG RVETGVLPKPGMVMMHHEALSEALPGD NVGFNVKNVDVKDVRKNGACDSTNE PTMEANGFT
7712	15763	A	8343	1	443	

7713	15764	A	8344	41	665	
7714	15765	A	8345	2	394	ADJIERLRMRRVMAAAATHASISGWNGD NMLEPSANMPWFKGWKVKTRKDGNASG TTTLEALNCGIGTVPVGRVETGVLKPG MEVTFAPGNVTTEVKSVEKHHEALSEAL SGDNAGFNVKNVSVKDVRRGNV
7715	15766	A	8346	1	461	MLLEALDCILPPTRPDTDKPLHLPLQDNY KIGGIGSV/PVGRVETGVLKPGMVVITAP VANVTTEVKSVEMHHEALSEALPGDNV FNVKNVSVKDVRRGNVAGDSKNDPPM EAAGREAVRDMRQTVAVGVKAVDKK AAGAGKVTKSAQKAQKAK
7716	15767	A	8347	1	743	
7717	15768	A	8348	208	945	NWFKGWKVKTRKDGNASGTTLEALDCI LPPTRPDTDKPLRLPLQDNYKIGIGTVPV GRLETGVLKPGMVVITATNVNVTTEVKS VENILVAPLDCPTTVPFPTRPSTYKIKIG YYFDTLAFEPISGWNGDDMLEPSANMP WFKGWKVKTRKDGNASGTTLEALDCIL PPTRPTDKPLRLTIQDVKIGIGITVTVG RVETGVLKPGMVVITAPVNGIT*VKS AMHHEALSEAHSDNVGNVKNV
7718	15769	A	8349	1	1434	RGITDISLWKFFETSKYYVTIDAPGHRDF IKNMITGTSQADCAVLIVAAGVGEFEAGI SKNGQTRHALLAYTLGVKQLIVGVN MDSTEPYYSQKRYEEIVKEVSTYKIKIGY NPDTVAFVPISGWNGDDMLEPSANMPW FKGWKVKTRKDGNASGTTLEALDCILPP TRPTDKPLRLPLQDVKIGIGITVPVGR VETGV/LFVPISGWNGDDMLEPRANMP WFKGWKVKTRKDGNASGTTLEALDCILP TRPTDKPLRLPLQDVKIGIGITVPVGR LETGVLKPGMVVITAPGNVTTEVKSVE LHEALSEAFPGDNVGNVKNVSVKDV HGNVAGDSKNDPPMEAGFTAQVILNHI PGQISTGYAPVLDCHTAHIAKCFABEKE KIDHRSKKLEIDGPKFLKSVDAIIVDMV PGKPMCVESFSDYPSLGCFAVRDMRQTV TVGVKAVDKKTAGAGKVTKSAQKAQK AK
7719	15770	A	835	1	321	
7720	15771	A	8350	1	1254	
7721	15772	A	8351	1	1195	
7722	15773	A	8352	1	2471	MGKEKTHINIVVIGHVDSGKSTTTGHLY KCGGIDKRTIEKPEKEAAEMGKGSFKYA WVLDKLIKAPRERGITDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTRHALLAYT LGVKQLIVGVNKMDSSTEPYYSQKRYEE MWLREVSTYKIKIGYNPDTVAFVPISGW NGDDMLEPSANMPWFKGWKVKTRKDG NASATTTLEALDCILPPTRPDTDKPLRLPL QDVKYKIGIGITDPAGRVKTGVLKPGMV/ VAPFAPVNGTTEVKSVEMHHEALSE/AL LLGDKGAFNVKNVSVKDVRRGNVAGD SKNDPPMEASGFTAQVILNHP/SQKNAR HMPLELDCHTAHIAKCFABEKEKIDRRS GKKLEDGPKFLKSGDAATVDMVPGKPM CVESFSDYPLGRFAVRDMRQTVAVGVI KAVDKKAAGAGKVTKSAQKAQKAK
7723	15774	A	8353	184	819	ETBEIKMASRGTETSKLQNLQEEQLDRL MQQLQDLLEECREELDTDEYEEETKETE LQSEFNDLSKKIMSGNMTLVDELSGMQ/L AQQAISQAFKTKVIRLGGK/HHFQ/L RPR*AEIMDRDL.MVGKLERDL.YTOQKVE IL.TALRKLGEKLTADDEAPLSANAGALS QFEKVSTDLGRPPSYMNYLLDHSIPSENI DVPYSKISFLKIQDL

7724	15775	A	8354	1	387	
7725	15776	A	8355	3	1022	FLASLQWVQTSFSSSEKFVITDLLKPTVS NLSKSFVSQVCSAGGSLRPTPEIQEVKTP EELTFMLKHGENIIDTLGAEDVRLKEL KSGSLVPCIPAAPAVTKRGQGTAPAIASV GGSPKPWQPRGVGPVQAOKSRTEVWK SLPRFORMYKGHLDAQNDRSTDSLHSAP GKATDTQCCQLKAAKSLYPAELKRWS CPWLWEPTFCISVTWSDLEQLKIRRRSP HEDTESFTVYLRSDVEAKSLEWVGSPEA LAREKKLRKEAEIEREKGSINSATLIEF SRYLSDTRY/RTSCAWCLKCICKIIPMT ANSCSPNTCSLCLLYSSPALPWTLKFA
7726	15777	A	8356	4	516	
7727	15778	A	8357	1	248	
7728	15779	A	8358	3	4135	
7729	15780	A	8359	2	417	
7730	15781	A	836	101	290	
7731	15782	A	8360	43	239	
7732	15783	C	8361	141	356	MSFDCGFGTLPLLLSPICCLGSYSNKVISP GLXXXXXXXXXXGALLKDPWGGPIFP GGGKFFFLFGGGF*
7733	15784	C	8362	22	159	MRGVFPLFPLKXXXXPKGLKXXXXGPI MSPPOKKVPFQKSQGGF*
7734	15785	A	8363	64	240	TLKFVKEGGPIPPQKKGPPKIPRGGI *GPPKKKKNFSPPPVKLGPPKGIFKRAP P
7735	15786	A	8364	19	471	
7736	15787	A	8365	3	399	
7737	15788	A	8366	186	840	
7738	15789	A	8367	7	633	PTITNVWSETSQELADGLRRSQSGDSVQ QNGPPRKHIVERYTEFYHVPTHSDASK RLIEDTEDWRPRTGTTQSRFRILAQITGT EHLKESEADNTEKANNSQEPSQLASSV ASTRSMPELSDSPSGRPGVTSLTTAAAF KPVGSTGVKSPSWQRPNQGVPTGRISN SAAYSGSVAPANSALGQTQPSDQDTLVQ R*PTITNVWSETSQELADGLRRSQSGDS VQNGPPRKHIVERYTEFYHVPTHSDAS KKRLIEDTEDWRPRTGTTQSRFRILAQI TGTEHLKESEADNTEKANNSQEPSQLA SSVASTRSMPELSDSPSGRPGVTSLTTA AAFKPVGSTGVKSPSWQRPNQGVPTG RISNSAAYSGSVAPANSALGQTQPSDQ TLVORAEIHIPAGN
7739	15790	C	8368	78	386	MTHLEAQNKKGGCTGSLNMTLQRAAA PKPEPGSCSKAHSQRVFRDPSGASRG REEDPRVTNTQNGKIPPKRPPKPHCG ALYRVLSCHTFTVMPARRD*
7740	15791	A	8369	20	442	
7741	15792	A	837	21	215	
7742	15793	A	8370	49	354	
7743	15794	A	8371	239	401	
7744	15795	A	8372	141	351	
7745	15796	A	8373	239	474	MRMVTWWRGVFLATSPSPRPSQLEKQ YTALYRKATSPN*FAPNCYPDPQHLG* LAPVAHVPL*QRRKAESPSSN
7746	15797	A	8374	1	740	MVSDIRKEDGMNVPLKYINPVGVNF AGVYLASEITLPGSFAIPEATSRGAATG TTHLASAVEPNGDSWCKQSRPVSVHYI RINITGVVCTCCDIERNIMLSPLNIRNNI TARLRPKTGTMPLREQRYTGIDENAHV VERRRV/RVPALHLRRPSQLEKQYIALYR KATSPN*FAPNCYPDPQHLDRAPVAH FPL*Q*RKAESPPSSN*VARGTCTS*LSKP RTVWKDVPARNRPVGP

7747	15798	A	8375	803	985	
7748	15799	A	8376	1	319	
7749	15800	A	8377	339	808	GSQSQQGNRGWFSVPSRGVPPPAVMG VLRARGGRGAGSQSPPPGGCLPPMRWG SGATRSLGLWWEISDGLPTPSRRRWG SS*TLGSGSPQVY*LVTPDSGSSH*KANS FCLSGDNLIGKKAASFRRSQVNQLSSAGS KPNNDVGLGTVCCKVSA
7750	15801	A	8378	588	2278	GWAHGGEEACFCVPALHLCRPSQLEKQY PVL*Y*KATSSN*FAPNYYDP*PHLG*LP PW
7751	15802	A	8379	779	986	ELQLYWLCKKPPDIRSHWKS*AGISTS RLCQLPKR*GSGVLPADSMRGRKVSIR SAWHRSI,WSSPL
7752	15803	A	838	158	955	KMTSSSEQEEDKNNQSATPRQTGPATT MNSKQGYPTQPTYVPVQPPGNPVYPTLH LPQAPPYTDAPPAYSELYRFSFVHPGAA TVPTMSAAPPASLVLPMASVAVGPL VGTIPMAYYPVGPYPPGSTVLGGKGG YDAGARFGAGATAGNIPPTPG/CPFNAA QLAVMQGANVLVTQRKGNFMGGSDDG GYTHLVRNQGHLCAREKTSHTLQHFSQ CNCFSHINLKLQFRHMLLGLCSGAQTFR HFSNLRHNVMVAVPP
7753	15804	A	8380	179	795	PAFFLPGCAPPV**IPSNVPAVGRSDFP SWTPYTHSPPDAGVEHPPWRTRLPWG VPAKGHQTGTATRLGFWDDTSGGLEP TPPRWWGSS*TLSEARSKCTE**HLTPD LPTERQTASGSGRI*CRKHLWSKQV KQLSSAGSNPSNVYGLGDCWM*SHCSL LNQAQILSRPVVGLRLGNRQEGSVPPWR LTRNYHSKGS
7754	15805	A	8381	1	1029	
7755	15806	A	8382	989	2798	
7756	15807	A	8383	2	396	
7757	15808	A	8384	3	1773	PGGRQQQAEGIMVQYELWAALPGASGV ALACCFVAAVALRWGRTARGAVV RARQKORAGLENMDRAQFRLOQNDL DSEALLALPLQVLQKLSHRELAPEAVL FTYVKGAWENVKGTNCVTSVLADCEQ LSQAPRQGLLYGVPVSLKECTYKGGDS TLGLSLNEGVPACEDSVVVHVLKQLGA VFPFHINVPQSMFSYDCSNPLFGQTVNP WKSSKSPGGSSGGEALIGSGSPLGLG TDIGSGIRFPSSFCIGCLKPTGNRLSKSG LKGCYVQGEAVRLSVGPMDRVESLAL CLRALCEDMFRLDPTVPPLFREEVYTS SQPLRVGYEYTDNYTMPSPAMRAVLE TKOSLEAAGHTLVPLPSNIPHALETLS GGFLSDGGHTLQNFKGDFVDFCLGDLV SILKLPQWLKGLLAFVLKPLPRI.SAFLS NMKRSRAGKLWELQHEIEYRKTVIAQ WRALDLVDVLTPLMAPALDLNAPGRAT GAVSYTMLYNCLDFPAGVVPVTTVTAE DEAQMEHYRGYFGDIWDKMLQKGMKK SVGLPVAVQCVALPWQBEVCLRFMREV ERLMTPEKQSS
7758	15809	A	8385	660	772	
7759	15810	A	8386	27	372	
7760	15811	A	8387	685	769	
7761	15812	A	8388	305	425	
7762	15813	A	8389	308	410	
7763	15814	A	839	217	491	
7764	15815	A	8390	3	501	
7765	15816	A	8391	4	318	
7766	15817	C	8392	340	474	

7767	15818	B	8393	317	702	LAEWRPREPMQRKLKVTSLPFGTVVITE QAVDTCKFAFFQIVLQKRVIRKTDINK KLVOELLCSAESEFTTVVGNMTCTLD FYEGQGRLDGALCSYTEKDKQAYLEAA YAAGVRNIEMESSVFAAI*
7768	15819	A	8394	209	581	
7769	15820	A	8395	227	1302	GDSRSRVTRRQDTAWNWSASHCRRLS ASSRSPLTGPASVGGMAATGANAEEKAES HNDCPVRLNPNIAKMEKEDILYHFNLT SRHNFPTLFWFKFGLFGGNPSRMKPFPI RCLGPEIGLDCPVDRYPNUCAGIDRYAM YKVGPSVLSVSHGMGIPISIMLHELKILL YYARCSNVTHIRIGTSGHGLEPTGVVITE QAVDTCKFAFFQIVLQKRVIRKTDINK NKKLVQELLVAESAELSEFTTVVGNMT CTLDIFYE/GQGRLDGALCSYTEKDKQA YLEAAAYARVPQLFEMESSVFAAMCS ACGLQAAVVCVTLNRLLEGQIISPURN VLSEYQQRPQRLVSFYIKKKLSKA
7770	15821	A	8396	3	337	
7771	15822	A	8397	2	375	NHEKDDNSLKIISNASCTTNWLTPLAKGI HDNFVIGELMTTVHAIATATKGTGDGPS GNWGVMAAGLSKTSLLPLGLGKAGG KVIFELNGKLTGMFAFRVPTGNVAGVDLT CRKKPKGYDDIK
7772	15823	A	8398	3	1141	IRHEVRQSAASSFASPAEPHRSDTMGKV KVGVNGFGRIQRLVTRAAPNSGKVDIVA INDPFIDLNMVVMFYQDSTHGKFGHTV VKAENGKLVNNGNPITIQEPKIPSKIKV GGDAGRLKYVVEFHAAVFTTMEKGLG ASFCRGGAKRVNQLPPSG*CPFCFGH V*TIKYDNSLKIISNASCTTNWLTPLA KVIHDNFGUVLEGLMTTVHAIATQKTV GWALPGNCGVMGPRGSSSTSLPLAA AKAVGKVNPLSLNGEAHLGMGFRVFN ANVSVVDLTCRLEKPAKYDDIKKVVK QASEGPLKGILGYTEHQVSSDFNSDTH SSTFDAGAGIALNDHFVSRILISWYDNEF GYSNRVVDLMAHMASKE
7773	15824	A	8399	1	374	
7774	15825	A	84	247	287	KRGFVLPPLGECGGPIWVNGR/LRLGLP PFSGLSFPGSWDYGLPPGRKIVHWFLE KRGRGVARVGSTLLTGEPVPLGF*KPPF F
7775	15826	A	840	1789	2411	KTYWRKKVEKVVVSNRLVTSPCICVTS TYGWTANMGENH*KLQALKETTSTMGV YYMASQRKHRGIKPLTSLIEVLKAKRPE GLJRTDKSVKDLAVILLYETALLSSGFQS WKIPRHHIA*QVSYRMKILGLGIDEDGPI LLDDTSAAVNLKELPPLLEGDDDTTHG KEVGLILLGLRGWTLFVSVLYNSSDNIFP QGCPLFLVNI
7776	15827	A	8400	127	420	
7777	15828	A	8401	3	509	KNRIKKISNLENLKSLDVLDLHGNQITKI ENINHLCELRVLNARNFLSHVDNINLGL DSLTELNLRHNQITFVRDVNLPCLQHL FLSFNNISSFDSVSLADSSLSIDITFDGN PIAQESWYKHTVLQNMMLQRH*DMEGE FTGRRKGVWHLF*PKKGGKREPEKS
7778	15829	A	8402	2	384	
7779	15830	A	8403	1	430	ERVGNVCSLEISNIQKGEQGEYMCHAVN IIEGAKSANVDIMPQEERVVVALPPPEFC RSKYGFGGRRQRQTKN*FRIFEMPPRFI MPICDFKIPENSDAVFKCSVIGIPTPEVK WYKEYMCIEPDNIKYVISEEKGSHTLIR
7780	15831	A	8404	1	12064	
7781	15832	A	8405	2	383	
7782	15833	A	8406	1	1677	

7783	15834	A	8407	2	2580	GQKKLVILNKS DLPKENLESWLNYLK KELPTVVPFRASTKPKDKGKITERVKAKK NAAPFRSEVCFGKEGLWKLLGGFOETCS KAIRVGIVGFNNVGKSSINSI.KQEQMC NVGVIIHGLQGSQM VVPLDKQITITISP SFIVSPLNSSSALALRSPASIEVVVKPMIEA ASAILFQADIVRQVVLKYTVPGLOGLW EFFTMLAQKKEVWHQGGIIPKCLEGA AKLLWSEWTGASL AYYCHPPTSWTPPP YFNESIVDMKSGFNLELEKKNAAQSIR GENCVSLSSSADRVELPVVYMGLLSFP AIKGPHLANSILFQSSGLTNGHIEEKDIHE ELPKRKERKQEEERDDKDSHETVDEEV DKKLDSMGSKRRRATSPSSVSGDFDDG HHSVSTPGSRKRRRLSNLFTVDPVAVCH ELYNTIRDYKDEQGRLLCELFIAPKRRT DSEIYEDAVELQOFTIKIRDELCKNGEILL SPALSYTTKHLHNDVEKERKEKLKPEIEE DKLREEEKRVBGIQRLHYCTNPDSPKPK YPAQRTQIHLQOEVLFYESKFRILEEVT VVLDTIHISINQPDYEVVVSQFIDLMKIQ QKLKMEEYDDVNLITADQOLLFNNAKS YYKPDSPYEKAACKLWDLYLRTNEFV QKGEADDEDDDEDQDNQGTITEGLLK ISITQIRPVVILFHYGESWNLRLADQRLI FAKSWPRASRYQQGHQDLTLRS DLP SQ VFIRDKLMERRNRRTGRTKARIWEVTD RTVRTWIGEA VAAAAAGVITSVPVTP HTFRHSYAMHMLYAGIPKVLQSLMGH KSISSTEVYTKVFALDYAARIVRQFAMP ESDAVAMLKQLS
7784	15835	A	8408	2	259	
7785	15836	A	8409	1	257	
7786	15837	A	841	225	336	
7787	15838	A	8410	3	365	
7788	15839	A	8411	2	243	
7789	15840	A	8412	2	339	
7790	15841	A	8413	2	182	
7791	15842	A	8414	2	381	
7792	15843	A	8415	59	572	SGRPF FFFFFSATGACLFPPGGRLGAEY RQRHWGTWVWHGLELGRLSNREGCA RACRDWHPPTERTGPGSGHGITSARLG TGTGERLRS GCVQGLVGMGRPVDRAC* SVLEPGGTGRANWALDVEKLGNY*E NKSLWVSRP/RQRCDQRDPWERPRLO VPIARQ
7793	15844	A	8416	3	1735	
7794	15845	A	8417	2	441	
7795	15846	A	8418	412	569	
7796	15847	A	8419	2	2812	RGLAVFISDIRNCKSKEAEIKRINKELANI RSKFKGDKALDGYSKKYYCKLLJFILL GHDDIDFGHMEAVNLLSSNRYTEKQIGYL FISVLYNSNSELIRLINAIAKNDLASRNP FMGLALHCIA SVGSREMAEAFAGEIPKV LVAGDTMDSVKSAAALCLLLRYTSPD LVPMDGWTSR VVHLLNDQHLGVTTAA TSLITTLAQKNPEEFKTSVSLAVSRI.SRIV TSASIDLQDYTYFVPAPWLVSKLLRL
7797	15848	A	842	610	834	
7798	15849	A	8420	2	397	
7799	15850	A	8421	3	438	
7800	15851	A	8422	3	354	
7801	15852	A	8423	3	339	
7802	15853	A	8424	1	338	
7803	15854	A	8425	1	70	
7804	15855	A	8426	62	374	

7805	15856	A	8427	2	374	
7806	15857	A	8429	1	342	
7807	15858	A	843	36	351	
7808	15859	B	8430	212	587	MKGGSFKYAWVLDKLAADRERGITIDIS LGKFETSKYYVTIDAPGHRDFIKNMITG TSQADCAVLIVAAAGVGEFAGISKNGQT REHALLAYTLGVKQLIGGVTKMDSTIPP FRKRKYEEIVKGX*
7809	15860	A	8431	1	1386	
7810	15861	A	8432	66	1574	KLTLPLPKWESVKTHINLAVIGHVDSG KSVTTTGHLYKCGGIDTQNHILNLTKEA AEMGKGSPUKYA WVLDKLKAERERGITI DISLWKFPETSKYYVTIDAPGHRDFIKN MITGTSQA*PGLGGPLFGG/CSPLIVAAG VGEFAGISKNGQ/TREHALLAYTLGVK QLIVGC*QKWDSTNEPTTAQKILKEIV K/EKVSTFH*RKFGYNPDVAFVFNPLV WN/GDNMLGAQVPNMPWFGQDGKVR KD/GNASGTLLWRALDCILP/PTRPTDQ APLRLPFQDVLPIGGYLGTVLWVWPE WETGVLRNPGMGVTPAPVNVTTVEKS VEMHHEALSEALPGDNVGFVNKNVSV KDVRRGVAVGDSKNPPMEAGFTAQ VILNHPGQISAGYAPVLDCHTAHLACKP AELKEIDRRSGKKLEDGPKFLKSGDAA IVDMVPGKPMCVESFSDYPLGRFAVRD MRQTVAVGVKAVDKKAAGAGKVTKS AQKAQKAK
7811	15862	A	8433	2	265	
7812	15863	A	8434	3	318	
7813	15864	A	8435	2	896	VGPRGMWRAGSMSAELGVGCALRAVN ERVQQA VARR/GDGLPAIQRI VAVSK TKPADMVIEAYGHGQRTFGENYVOEL LEKASINPKILSLCPEKWHFIGHLQKQ VNKLMAVPNLFMLAETVDSFKVLADKV NSSWQRKJGSPERLKVMPGFNTSREEI YLFVSLLLEGKHGLPPSETIAIVEHINAK CPNLEFVGLMTLGSFGHDL SQGPNPD FOLLSSLPEETVVKS*RIPADQVELSMGL SADMQHAIVEVRSTDVWIRSTVFGEPDY SKKPTPDKCAADV KAPLEVAQEH
7814	15865	A	8436	202	349	
7815	15866	A	8437	1	129	
7816	15867	A	8438	3	387	
7817	15868	A	8439	505	693	
7818	15869	A	844	3	259	
7819	15870	A	8440	46	3454	AGESIMDTDLYDEFNGYIGPELSDDEDD DELGRETKDLDEMDDDDDDDVDGHD DDHFGMEVVLHEDDKYYPTAEVEYGP VETIVQEEDTQPLTEPIKPVKTKFTLME QTLPTVTVYEMDFLADLMDNSLIRNVTL CGHLHHGKTCFVDCLEQTHPEIRKRYD QDLCTYDILFTEQERGVGKSTPVTVVLP DTKGKSYLFNIMDTPGHVNFSDVETAGL RISDGVVLFIDAAEGVMLNTERLIKHAV QER
7820	15871	A	8441	2	639	
7821	15872	A	8442	60	345	
7822	15873	B	8443	26	384	MHHEALSEALPGDNVGFVNKNVSVKDV RRGNVAGDSKNPPMEAGFTAQVILN HPGQISAGYALYIAIVDMVPGKPMCV ESFSDYPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*

7823	15874	A	8444	33	99	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYIKCGGIDKRTIEKFEKAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIADPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTR EHALLAYTLGVKQIVGVNKMDSSTPPY SOKRYEEIIVKEVSTYIKKIGYNPDYVAFV PISGWNGDNMLELCSNMPWFKGMKIV TRKDGNASGTTLEALDCLIPTRPTDK PLRLPLQDVYKIGGIGTVPVGRVETGVL KPGMVVTFAPNVNVTTEVKSVEMHHEA LSEALPGDNVGNVKKCVSRMFRRGNG VAGDSKNDPPMEAAGFTAQVILNHPIS QKNARHMPLELDCHTAHACKFA*A*RK RFDRRSGKKLEDGP*NSLKS*CWPLV DMVPWASPMCV*EASQDYPPLGRFWFP RYMRQTALRLGVNQQLDKKAAGVAG KVHQSLAQKA*KPKWERKRLISTLSLD T
7824	15875	A	8445	2	442	
7825	15876	A	8446	76	413	
7826	15877	A	8447	524	954	
7827	15878	A	8448	3	206	
7828	15879	A	8449	3	206	
7829	15880	A	845	3	661	
7830	15881	A	8450	3	327	
7831	15882	A	8451	56	324	
7832	15883	A	8452	33	159	
7833	15884	A	8453	2	494	
7834	15885	A	8454	130	716	LFARLPEAIPWRQKKESSAQIRLEPPSRA QGETGFSWLGPDTHSRFVWWLGL/CG EGWAGIPLCFSPRKYNTPITRDLGPPL TGQGNKKTNRSSQTLPIVIEKPLSL*KLL PSLRERE*LFGLGVRAPSGSLISGLGA QACQO/GLPCLCLYPCLRGPGODFPNQR FOHPSPSQKPPSSFPHGYSVESLF
7835	15886	A	8455	1	578	GGRSVLPVDPVRSHFPMTHGNTGLSAG LDASAQTTSHELTIPNDLIGCIGRQGAKE NEIROMSGAQIKIANPVEGSTDRQVITITG SAASISLAQYLVNLENKAPSSQAASVTI PDHLSINLSQPSSTSSSSTITPPLATAG TSDAPSSLNPNSSDRPLCLQSAWHEHHPF PGSPPPRLLPATPL
7836	15887	A	8456	2	875	IITLAGPTNAIFKAFAMIDKLEEDISSM TNSTAASRPVPTLRLVVPASQCGSLIGK GGCKIKEYTREYRGFRSKVAGDMLPNLT ERANTIAIGPQSIIECVKQICVVMLETLSQ SPPKGVITPIYRKPSSSPVILQGGQPYTI QGQYAIPOPDITKLHQLAMQSSHFPMPT HGNTGIQWHLNPA SPRGSKAYWAGLD ASAQTTSSWNSPFPNGFDWAGIAGFKG AKINNEIROMSGAQIKIANPVEGSTDRQ VITVIGSAASISPGVNIHNVRLSSEITOGM GSS
7837	15888	A	8457	3	376	HSSGLGGGVMLVHDIRRNESHLDIRE SAPGALREITLQSWETKPGLLGVPG MVKGLHEAHQLYGRLPWSQVLAFAAA VAQDGFNVTHDLARALAEQLPNMSE FRETFLPFRPLPGS
7838	15889	A	8458	1	1965	
7839	15890	A	8459	4	267	
7840	15891	A	846	33	382	
7841	15892	A	8460	10	464	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVFRDPYRFKRRTELFIA AEGIHGTQFVYCGKKAQNLGNVLPVGT MPEGTIVCPVISKVVISSANRAVGVVA GCGRDNRLV

						GGGRIDKPILKA
7842	15893	A	8461	5	807	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVVRDPYRPFKRTLEFIA AEGIHGTQFVYCGKKAQNLNIGNVLPVGT MPEGTIVCCLGGEAWKTRGKLARASGN YATVISHNPETKKTRVKLPSSGUKVISS ANRAVVGWVAGWPPELTNPSLKAGRA YHKYKAK/RQRNCWP/IRIGVAMNPVE HTFGGGQ/HPQHIASPTTIRRDAP/AGRKV GLIAARTGRLRGTKTVQEKEN
7843	15894	A	8462	11	349	
7844	15895	A	8463	305	676	RSKSDSAADLPSSRRARI.SGTGEKASENK GDPVHL*ADGGFVPLEDSLCLM*FPAAWS SPSAALSIGLTVQVAGLQGLPWAPWVVP LGSTGRRSSGELEESEAGYLSTSTDGLL GSFKEGCS
7845	15896	A	8464	352	784	
7846	15897	A	8465	3	381	
7847	15898	A	8466	1	233	
7848	15899	A	8467	3	356	
7849	15900	A	8468	2	374	
7850	15901	A	8469	2	482	KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCKHPEAKRMPCAEDYLSVV LNQLCVLHEKTPVSDRVTKCTESLVRN RPCFSALVEDETYVPKEFNAETFTFRVK HKPKATKEQLKAVMDDFAAFVEKCKCA DDKETCFAEFGKLLVAASQAAL
7851	15902	A	847	21	371	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVPWTQRFFDSFGNLS SASAIMGNPKVKA/HPENFKLLGNVLVT VLAHFGKEFTEVQASWQKMVTGVAS ALSSRYH
7852	15903	A	8470	2	435	
7853	15904	B	8471	73	384	MFLYEYARRHPDYSVLLRLAKTYETT LEKCCAAADPHECYAKVFDEFKLLVEEP QNLIKQAWRQIPECAISSLHQESTPSVN SNSCRGLKKPRKSGOQML*
7854	15905	C	8472	11	475	
7855	15906	A	8473	1	608	
7856	15907	A	8474	1	593	AKYICENQDSISSKLEKCECKPLEKSHC IAEVENDEMPADLPSLAADFVESKDVCK NYAEAKDVFLGMFLYEYARRHPDYSV LLRLAKTYETTLEKCCAAADPHECYAK VFDEFKPLVEEPQNLIKQNCLEFQLEGEY KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCKHPEAKRMPCAEDYLSRG PRTSRMFAKTMLRQRMSSWAC/CLYEY ARRHPDYSVLLRLAKTYETTLEKCCA AADPHECYAKVFDEFKPLVEEPQNLIKQ NCLFEQLEGEYKFQNALLVRYTKKVPQ VSTPTLVEVSRNLGKVGSKCKHPEAKR MPCAEDYLSRG

7857	15908	A	8475	1	1428	MKWVTFISLLFLFSSAYSRGVFRDRAHK SEVAHRFKDLGEENFKALVLIAFAQYLQ QCPFFEDHVKLNVNEVTEFAKTCVADESAB NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPERNECFLQHKDDNPPLRL VRPEVDVMCTAFHDNEETFLKKYLYEIA RRHPYFYAPELLFFAKRYKAAFECCQA ADKAAACLLPKLDELREDEGKASSAKQRL KCAASLQKFGERAFAKAWAVARLSQRFP AEFAEVSKLVDTLTKVHTECHGDLLEC ADDRADI.AKYICENQDSISSKLKCECEK PLLEKSHCIAB/HRNLGKVGSKCKHPEA KRMPCAEDYLSVVLNQLCVLHEKTPVS DRVTKCCTESLVNRRPCFSALEVDETYV PKEFNAETTFTHADICTLSEKERQIKKQT ALVELVKHKPKATKEQLKAVMDFAAF VEKCKCKADDKETCFAEKGKLVAAASQA ALGL
7858	15909	A	8476	1	748	
7859	15910	A	8477	1	1515	
7860	15911	A	8478	1	2931	MKWVTFISLLFLFSSAYSRGVFRRTPLGP ASSLPQSFLKCLEQVRKIQDGAALQE KLCAATYKLCHEPELVLLGHSGLGIPWAPL SSCPQSALQI.AGCLSQLHSGFLFYQGLL QALEGISPELGPTLDTLQLDVADFATTIW QQMEELGMAPALQPTQGAMPAPASAFQ RRAGGVLVASHLQSFLEVSYRVLRLHA QPGGGGDAAHSEVAHRFKDLGEENFKA LVLIAFAQYLQCPFFEDHVKLNVNEVTEF AKTC
7861	15912	B	8479	1	6124	MKWVTFISLLFLFSSAYSRGVFRDRAHK SEVAHRFKDLGEENFKALVLIAFAQYLQ QCPFFEDHVKLNVNEVTEFAKTCVADESAB NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPGRNECFLQHKDDNPPLRL LVPRPEVDVMCTAFHDNEETFLKKYLYEIA ARRHPYFYAPELLFFAKRYKAAFECCQA AADKAAACLLPKLDELREDEGKASSAKQRL KCAASLQKFGERAFAKAWAVARLSQRFP KAEFAEV
7862	15913	A	848	24	474	
7863	15914	A	8480	241	348	
7864	15915	A	8481	2	191	
7865	15916	A	8482	3	370	
7866	15917	A	8483	1	351	
7867	15918	A	8484	44	454	
7868	15919	A	8485	200	408	
7869	15920	A	8486	1	110	
7870	15921	A	8487	48	462	
7871	15922	A	8488	1	721	MHWGVGFASSRPPCVVDLSWNQISISFFG WWAGSEEPFSFYGDIIAPLQDYGGIMA GLGSDPWWKKTLYLTGGALLAAAAYLL HELLVIRKQOEIDSKDAILHQFARPNNG VPSLSPFCLKMETYLRLMADLPYQNYVGG KLSAOGKMPWIEYNHEKVSGETEIDFLE EKLGVNLNKNLGPHERAISRAVTMKVEE HFYALSWRWYHPVPTCPLQKFLQFVRQ LMLFMRTSPSALPGH
7872	15923	A	8489	3	785	
7873	15924	A	849	24	415	
7874	15925	A	8490	5	302	
7875	15926	A	8491	1	2086	
7876	15927	A	8492	3	2011	
7877	15928	A	8493	305	505	

7878	15929	A	8494	3	1588	EEEDYDVYKSEFPTEADLEDFTEAAVDE DDEEEEGEEVVEDRDYVYDTFKGDDY NEENPTEPGSDGTMSDKETHDVKAVCS QEAMTGPCRAVMPRWYFDLSK GK CVRF IYGGCGGNRRNFESEDYCM AVCKAMIF PTPLPTNDVDVYFETSADDNEHARFQ A KEQLEIRHRNRMDRVKKEWEAELOAK NLPKAERQTLIQHFQAMVKALEKEAASE KQQLVETHLARVEAMLNRRRMALEN YLAALQSDPPRPHRLQALRRYVRAENK DRLHTIRHYQHVLAVDPEKAAQMKLSQ VMTHLHVIEERRNQSLSLLYKVPYVAQ EQQEIEDELLQEQRADMDQFTASISETPV DVRVSSDESEIEPPHFHFPALPENEG SGVGEQDGGILGAEEKVINSKKNVDEK HGPI.NETL.DVKEMIFNAERVGLLEERE SVGPLREDFSLSSALLGLVIAVALATV IVISLVM LRKQYGTISHGIVE/VVDPML TPEERHLNKMQNHGUYENTYKYLEQM Q I
7879	15930	B	8495	73	1845	MAATGTAAAAATGRLLLLLVGLTAPA LALAGYIEAALANAGTGFVAEPPQIAMF CGKLNHMVNIQTGKWEFPDGTGKSCFET KEEVLQYCEQMYPELOHNVMEANQRV SIDNWCRRDKKQCKSRFVTFPKCLVGEF VSDVLLVPEKCOFFHKERMEVCENHQH WHTVVKAECLTQMOTLYSYGMILLPCG VDQFHGTEYVCCPQTKIIGSVSKEEEED EEEEEEDEEDYDVYKSEFPTEADLEDF TEAAVDEDEDEEEGEEVVEDRDYVYD TFKGDYNEENPTEPGSDGTMSDKETH DVKAVCSQEAMTGPCRAVMPRWYFDL SKGKCVRFIYGGCGGNRRNFESEDYCM AVCKAMIFPTPLPTNDVDVYFETSADDN EHARFQAKKEQLEIRHRNRMDRVKKEW EEAELOAKNLPKAERQTLIQHFQAMVK ALEKEAASEKQQLVETHLARVEAMLND RRRMALENYLAALQSDPPRPHRLQALR RYVRAENKDRLHTIRHYQHVLAVDPEK AAQMKSOVMTHLHVIEERRNQSLSLYK VPYVAQEQIEIEDELLQEQRADMDQFTA SIEHPCGRPGEL*
7880	15931	B	8496	55	274	MADANKAEVPGATGGDSPHLQPAEPPG EPRREHPAEAEKQFQHSSSNGVKME NDESAKEKSDLKEKSTGX*
7881	15932	A	8497	3	754	FLFFEPHPAEARKQFQHSSSNGVKME NDESAKEKSDLKEKSTGSKKANRFHPY SKDKNSGTGEKKGPNNRNVFISNIPYDM KWQAIKDLMREKVGVEVTVYELFKDAEG KSRGCGVVEFKDEEFVKKALETMNKYD LSORRVNIKEDPDGENARRALQRTGTSF QGSHASDVSGSLVNLPPSILNPNIPPEVI SNLQAGRLGSTIFVNLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDGGQSRGMGT
7882	15933	A	8498	2	346	
7883	15934	A	8499	1	414	AWHEETHKVDLGLPEKKKNKVVKEPE TRYSVLNDDYFADVSPLRATSPSKSVA HGQAPEMPLVKKKKKKKVSAALGKE VKRSQSKRLRNTSP*VMTLRPPQRKRS PKRR*SSQSSRSQ*KGKRRRRKGRGG
7884	15935	A	85	2	526	RGCGDRDGPFSASSPLAMASLTVKA YLLGKEDAVAREIRRLSCCSTEPAQAEVAA GPGPCERLLIRVAALFPVRRPGGFQAHY RDEDDGLVAFSSDEELTMAMSVYKDDIF RIYIKETNECLAHDHPPDAHERA/PRNM VHLNEICDG*NGPVAGILYMCSFCPY YLLCTPFNV

7885	15936	A	850	24	432	APSPDAMG/HSLWGKVNVEDAGGETLGRLLVVYPWTRQFFDSFGLSSASAIMGNPKVKAHGGKVLTSGLDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVHFGKEFTPEVQASWQKMTVGVASALSSRYH
7886	15937	A	8500	1	1977	MEVDFKIRKVGQWTTITLQEHFVSULLFIEETHPENKPTSTAEEHSIRSDTVMVNFQCQLDWSKGYLEAYLTINSICSHRFLLDGSVTCHEDETQSSRDARDTVGIGVRVNDSEVQLGLRRTMWLIGICRGAAMAAVSTVIAFAGRPRPKSRNPRGWAGDSKWTSGSRRSWLGRGGGEISPTGMITKTHFVYVGLPEKKKKKRVVKEPETRYSVLNNDDYFADVSPLRATSPS*MDVAHQAPEMPLVKKKKKKKGVSTLCEEHVPEITLPAARTEKSPSLRKQVFGHLEFLRGKRKNKKSPLAMSHASGVKTSQDPRQGEETRVGKKIKKKHKKKKGGPGHSLVPQDPWFCEAREARDVGDTCVSGKDDEQAALGQKRKRKSPREHNGKVKKKKKIHQEGDALPGHSKPSRSMESPRKSGSKKPKVKEAPEYIPISDDPKASAKKKMKSCKKVEQPVIEEPLKRRKKKKRKEGVSAGDPWKEVFPFSEMDFAVGLRETDTDLVVLKKGNNMDEAHIDQVRRKALQEEIDRESGKTEASETRKWTGTQFGQWDTAFENEDQKLKFLRLMGGFKNLSPSFRPASTIARNPMALGKKAADSLQONLQRDYDRAMSWKYSRGA GLGFSTAPNKIFYIDRNASKSVKLED
7887	15938	A	8501	2	376	TAGFLLPQGLPCKYHLMVGHSLMPNVWRRTTTREPKPLGDAEPNTRSLMWVVKRSSQPWVFKSNIACHIPRITSTSSAYD/WPHTSF**FSGHPCHGCHQFSPQDMVTFPLCOLPAHLH
7888	15939	A	8502	2	956	
7889	15940	A	851	323	737	
7890	15941	A	852	24	589	
7891	15942	A	853	100	684	
7892	15943	A	854	135	851	APSPDAMGHFTEEDKATITSLWCKVNVEDAGGETLGRLLVVYPWTRQFFDSFGLSSASAIMGNPKVKAHGGKVLTSGLDAIKHLDDLKGTFAQA*SELHCDKLHVDPENFKLLGKACGDPFLAIPFSAKEFTPGGCRLPQKDG*LGVGQCPGPPDTTEAQLPMNAELFKDMALFLQAITNNKSISAKRSNFKLLGNVLVTVAIHFGKEFTPEVQASWQKMTVGVASALSSRYH
7893	15944	A	855	40	505	QPQTVSILHLPTEKSAVTALWGKVNLD EVDVEALGRLLVVYPWTRQLLESFGLNSTPDVAMGNPKVKAHGGKVLGAFSDGLAHLNLLKGTFTATLSELHCDKLHVDPENFRLLGQRAWSVLAGPITFGKEFTPPVAGLPRLKYAGVANALAHK
7894	15945	A	856	41	536	APSPRRPWGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTRQFFDSFGLSSASAIMGNPKVKAHGGKVLTSGLDAIKHLDDLKGTFAQA*SELHCDKLHVDPENFKLLGNVLVTVAIPFSAKEFTPEGCRASWAERWVTWSWVPVPCSSRYH
7895	15946	A	857	241	435	
7896	15947	A	858	243	449	
7897	15948	C	859	275	397	MLCWKLGVHHYSGNINELGTAMRENTYRVLHTGLFIDPG*
7898	15949	A	86	285	326	NLPKILGHTQKRQLQSTRSWKRMMLSLNLQIIYNPVPFVGITPDHLDFVS*IVTRGPVSSDANIYQYDL*NPKNLSLV
7899	15950	A	860	2	424	

7900	15951	A	861	73	608	SVMTPVAPITLKAASKSDSSGPHRLREN PWCLSPADKTNVKAAGWKVGAHAGY GAELVERMFLSPTTKTYFFHDLSHG AQV*GATGKKVADALTNVAHVGRT LPNALSPEATLHAHKLRGPGSTFKLL SHLPCLGEPWAAHLPGRVSLPGCKAS LGINFLGFLKQPC
7901	15952	A	862	7	330	
7902	15953	A	863	2	379	
7903	15954	A	864	3	722	HERGSVSCFNSGWTDIRHGLFPPTAL RFPLRLQPPGPSRRSPASGTQCHQFLWL APSCOPTMSSQIRQNSYTDVEAAVNSLV NLVLQASYTYLSLGFYFDRDDVALEGV HFFRELAEEKREGYERLLARMQQRGR ALFQDIKKPAEDEWKGTPDAMKAAMAL EKKLNQALLDLHALGSARTDPLHLCDFLE THFLDEEVKIKKMGDHLTNLHRLGGE AGLGEYLFERLTLKHD
7904	15955	A	865	40	264	
7905	15956	A	866	3	1231	
7906	15957	A	867	3	496	
7907	15958	A	868	1121	1442	
7908	15959	A	869	2380	2714	EETEGQARWITPVIPTLWEAEAGGSPEV GSSRPA*PPLSAFLYPAFFLRARFL
7909	15960	A	87	133	392	LITIIYIPENCQPGHSETSSLKKKKKLA GCGGTHL*SOLLGRLRREDYLSPGGQICS EP*SYHCTPAWVTGQDPASKKKKKKKK R
7910	15961	A	870	3260	3533	
7911	15962	A	871	6330	6802	RSKGRAKIKRRAGQVQWLMFPVIALW EAKAGGSPPEARSL*PAWPIW*PALHSSL /V**SKALSQKQKQKNGHDGHQDET V SLLKIQKSAGAHLSOLLREAEAGELLE P RRQTLO*AEILPLHSLGDKSKTPSQKK KKRSQGVGVREPOGP
7912	15963	A	872	1	500	
7913	15964	A	873	63	375	
7914	15965	A	874	27	374	
7915	15966	A	875	1	801	
7916	15967	A	876	1286	1388	
7917	15968	A	877	1	1056	
7918	15969	A	878	651	1467	
7919	15970	A	879	3	414	
7920	15971	A	88	2	359	EVLRMAGTGLVAVEVVVDALPDFEBGY EGPGGREAAAALVEDETRRYPTMNYL SYLTPSDYSAFETDILNDSERLAARQA I*LLTMKLYLSSPCGHYFVLLHVYNC LSLYFPSP
7921	15972	A	880	164	412	
7922	15973	A	881	29	489	
7923	15974	A	882	44	847	IKENSIWIRASITITLKGITIGIEPEGK EGECSTGLVNPFRDFPSKVSFPKIPV* T SLHITPLAIVCFQNIWSLHGKGQRCKG QININKRETKNKNTTLFREPKQNPQIPFF* TTQGHVEVKSLSSTVPL*ITGRKAISTQSL* QEFSTLEASEHAEDG/ALLRVPLPSWRA PSGVGTVKSRSFHVPRDHOPTTHWWP WWWSMAGRQRPSTLSHFLSWMTSCLGP SHFRRELAFWKPTFPIIHRTQSAHLVP LVFKGHFQOTL
7924	15975	A	883	40	431	
7925	15976	A	884	122	341	
7926	15977	A	885	23	419	

7927	15978	A	886	1	598	LARNPGSTHASGGILLGRQCWVLTMAP KKAKKRAGGANSNVFSMEFQIQJEFK EAFITMDQNRDGFIDKNDLDRDTACPW RKLNVKNEIEMKKEAPGPNFTVFLT MFWGRNLKGADEPGKPFNLNRISKVFDPE GKGVAEGLDYVREMLNAGRRGFPRKE VDQMFAAFPVDVTGNLDYKNLVIHTH GEEKD
7928	15979	A	887	174	452	
7929	15980	C	888	60	245	
7930	15981	A	889	1878	2295	SFSFAWPSRWCASSSWCTDCLVPSTCAA LQHPVVFLDKGNHILFFYFFVFVILYTSS SHEVED*PCVMFSKIKWYLLE/VRYILVV AYRLSFCKERRKTIKLCQIILLCLAARTW LPCLSLPPLFSLSLCLMDFFFEKK
7931	15982	A	89	69	342	VGNMSGTINLDGNDEFDEQLRMLEYGD GKDGDITLTDAGGEPDSLQYSTDTPTTE WDLDI*AWFFMISEYFLFTYLVQFMAFL LYCGFMFL
7932	15983	A	890	3218	3469	
7933	15984	A	891	618	1236	
7934	15985	A	892	12	138	
7935	15986	A	893	1	1002	
7936	15987	A	894	66	293	RLFRFFCPTGCSLDVVLISLFS*GCGFL*S LHTGFMPSPPEFWGDSLSVQJVTNFSWR FSSAVAFSSASGSPQGS
7937	15988	A	895	2202	2335	
7938	15989	A	896	343	906	
7939	15990	A	897	1455	1604	
7940	15991	A	898	370	807	
7941	15992	A	899	1	1548	
7942	15993	A	9	1130	1377	ASHLRSGVRDQPEQHGETPTLTKIQKSP GCGGRHL*SQLPGRRLQENHNLGGGG CGELRSHHCIPAWVTETLTKKKKKR
7943	15994	A	90	144	2205	DRRERCHPFRALMP/LRPAEPRPAFPIH HPLLQPDANE/PG/CWAEAVQCGPT/AE DPPCVSRAAPGGSVPPFC/PGRL*GWGG PRGKGDEPLADSPPCELRFEEESRPPR VVGESPAEKLAIPP/PLCFF*PFSEF/PE L*TKSPS*EMTNHMLHSGGGGSGWSPST SPGPPPGGSLPRAAALPPKTPGQTRAPAG AGCPHADLAMSPPGTPGSPPVAPTSLVA DCSSQNV*HPRVPEPTQAATPVQFKNVI TSPGCGSPPKQ/APVPVPRMYNMPRV EPAQAATPESLGHVPELRSQTIVATASP GHLTPMKGTLSAREIPEVTGPPWCPV PVPSPPLCPAPRGSAGGLTLPLRSQTS GSTFLLSIFPCKLTSPFGLGVQGTAGG RSVCTVVQGVVSERGTSVGQLLHLPPV LCPPLSKGQVMAPAGL/PQCSGPPVQW GDRPTPT*CIQPGQVYCCD/VLPALLCR FPGAAGQPRTHIEWACPALAECLPCALRQ VPRAGQPG*TMCGAGTGPGCWKGQK EAGGRCEKLTPTPLNTALPAPAGCSOL PLSHGWPLPPSPH*DSRQGGDP/APSPS QPWLRKPNPTMGLRKRK*LLPASPKR LRKPKAASLVRHPKASLGS*EGLIWA LP*GWVPCRWGPLGALGGTQWPPRHPGP VLISRA*GLQOPLTK
7944	15995	A	900	3	127	VLCQFSKGMPLPVEAQSV*YYWLWRYVP SIPSLRVSFMSKGC

7945	15996	B	901	1	1926	MFSDSLTPMHKIRIVTLLKREGHVVGFM GDGINDAPALRAADIGISVDGAVIDARE AADILLEKSLMVL EEGVIEGRRTFANML KYIKMTASSNFGNVFSVLVASAFLPFLP MLPLHLIQLNLLYDVSQVAIPFDNVDD QIQKQQRWNPADLGRFMIFGPISSIFDIL TFCLMWWVFHANTPETQTLFQSGWVFW GLLSQTILVHMIRTRRVPIQSCASWPLM IMTVIVMIVGIALPFSPLASYLQQLPLS YFPWLVAIAGLATSNDRFDLNLHVFRQ TGNFNARTCREGGVVFGEFGASGFDDDR FYVIQRLTCLCSDVCRFYARFRIYRDLTG GDDHIAQINXLYVRPIAAGPAGPTFLRW HSRRAMLLTRADMEDRERFLNARDTLR ALLDNIVPVINENDAVATAEIKVGDND NLSALAAIAGADKLLLLTDQKGLYTAD PRSNPQAEIKDVYGIDDALRAIAGDSVS GLGTGGMSTKLQAADVACRAGIDTHAA GSKPGVIGDVMEGISVGTLFHAAQATPLE NRKRWIFGAPPAGEITVDEGATAAILERG SSLPKGIKSVTGNFSRGEVIRICNLEGRD IAHGVSRYNSDALRRIA GHHSQEIDAILG YEYGPVAVTVMHMDYR*
7946	15997	A	902	1	1602	
7947	15998	A	903	1	972	
7948	15999	A	904	280	358	
7949	16000	A	905	141	152	QCPQP RP PPRCPTPQSGHTGCSTGG*GL NPLYNLCDRSGAWGIVLEAVAGAGIVT TFVLTHLVASLPFVQDTKKRSLGTQLR GRCHHTAGTMGSC
7950	16001	A	906	177	247	
7951	16002	A	907	574	737	
7952	16003	A	908	221	576	GVGGDTHDTHPNTGREGGSPRSAGHYA GPARGRRSLESPLPGARSSGSPNPTASP SPPLTQSHT*GFPKRPRESSRLSRGVAAW WLWAEYIVFKPAGSSWHCPSPWLLAVA RGRMMS
7953	16004	A	909	1	157	TKTWTLLKHHFVGYPTNSDFELKTAEPLP LKNRGRVAAKRLKEGDTMMGQOVAK
7954	16005	A	91	122	874	SPLLGGLRQKIFFNWEGGGSIKPKLTPSP PARGQGGGPFSSSSPSSSSPES*LFPALRT PSRQGGSAIPASAGLSTPACVPSGSTRNL FHAPHVGRVSLLLPAS*KAAGPSKKGPG QVNPAP*FRKPGVGI*RSVGPRLPLE* LH ARKNRAGPVPLGLGKEGSPQKPRQTQ LASLLMEGPPTHPTIHDGTTAQPELWPC RGPQMOSWGSQGEHTGPRQPPHPHPS RHRSDESSSLLQASAHGKA
7955	16006	A	910	3	484	VRLEDRRRGPSLGTCHKSDPGRPAQS QPPSPGSGTFLGSLFRMVRTKTWTLKKH FVGYPNTNSDFELKTAEPLPKNGEVLLE ALFLTVDPYMRVVEKSNVALPKGTIVLA SPGWTTHSISDGKLEKLTTEWPDITPLS LALATVGMPLGATAYFGLLE
7956	16007	A	911	1	1147	MILLCOKAPSLKTTYNHPPAADSAGTAL NLETTVQKTRETQLEYNNVGTDLSPKPK SFNYPLSSSGDQFEIQLNQQLWSLIPNN DVRRLVSHVIRILKIDCTETHQLACAK LISRTGLLKLLESEQELRTVSMATAWKP RMNRKSRMRQSHFASHAGRWWHHH STLQPSPKLQMAELSEARRRSFRMVRT KTWTLKHHFVGYPTNSDFELKTAEPLP KNGGLEFLIAYGMLYFVFEVLLEALFLT DPYMRVAAKRLKEGDTMMGQOVAKV VESKNVALPKGTIVLASPGWTHSISDG KDLEKLTTEWPDITPLSLALGTVMGPGJ TAYFGLLEICGVGGETVMVNAAGAV GSVVQIAKLGCKVVGAVGSDEK

7957	16008	A	912	214	540	
7958	16009	A	913	495	684	
7959	16010	A	914	1	1911	
7960	16011	A	915	3	1381	KTPFVGYOHRQPKVDKTTKMRGRNSQRK AENSKNQSTSSPPKDRSSLPATEQSWTE NDPDELTEVGFRRSATNFNSLKEHVLTR RKEAKNLEKRLDEWLTNNSVEKTLNDL MELKTMALQELRDARTSFNS*FNQVEKRI SVIEDQIDEIKQDDKA AETCNWRWVWSES LRQLRASVDAPHARASHYNAGECLHQL AALNSRLNCAQEMARRDSIGEVPVPFW RTVVGSGIAGEAKLDHLRLVSLGREVN KENSFAATR WLFQAGALAGGOVILQA AKFNAHQGPVVATRNLPAGHVAVLK QRPRLVAAAVQAFYLRDPIDLRACRVFK TFLPETRJMTSY YAJEWSL WTLVDVLHA ENSESAHMSHNSYDPPSDVARHLTHLPM SPIPDYIARFRYRHRSRVRLTARKLSPAF MRCSEIQRYSITMLERGFGNGYCRSTTV RVVTEATRMLSF
7961	16012	A	916	1	1191	
7962	16013	A	917	1	227	
7963	16014	A	918	1	392	
7964	16015	A	919	157	388	
7965	16016	A	92	27	319	IINTSISLWFLGLSSIIHHYQERFL*FN*FG SYMVIEIFFGHISSAFFVC*WPK/YLLYFR YCRCLLILLLSIFE/DLCYLVL*IFMFFL FFYMFCLV
7966	16017	A	920	451	593	
7967	16018	A	921	467	1038	
7968	16019	A	922	233	345	
7969	16020	A	923	1	1386	
7970	16021	A	924	1	1254	
7971	16022	A	925	36	695	
7972	16023	B	926	52	554	MGKEKTHINIVIGHVDSGKSTTTGHLY KCGIDKRITIEKFEAAEMGKGSFKYA WVLDDKLAERERGITIDISLWKFETSKY YVTIADPGHRDFIKNMILNHPGQISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAIVDMVPGKPI*
7973	16024	A	927	63	1545	PLKAKMGKEKTHINIVIGHVDITGKST TTGHLIVKCGIDKRITIEKFEAAEM GKGSFKYA*VLDKLAERERGITIDISL WKFETSKYVVD*SLIAPGHRDFYKGT* FTGTISRLDLVWGAPPLGG/CLP*LFAG VWVWNLKAGISQEWGRTHALLGLHTG VWKQTLFGVKNKNWIST*GHPTAQKKIL KEIVKGSALT LRKIGYNPD TSSILCPISG WNGDNMLEPSAINMPWFQDGDGVTRK DGNASGTTILLEALDCLPPTPTDKPLGL PLQDVYKIGIGITVPVGRVETGVLPKPGM VVTFGPVNVTEVKSVEMHHEALGEAL PGDNVGFNVKNVSKDVRGRNVAGDS KNDPPEAAAGFPAQVILNHPGQISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAIVDMVPGKPMCV ESFSYPLGCFVRDMRQTAVGVVIA VDKKAAGAGKVTKSAQAQAKAK
7974	16025	A	928	2	246	
7975	16026	A	929	318	420	
7976	16027	A	93	264	664	IRLAFCGIFFOAFSICNSNIWLLPEIPLLG IYP*E*NTKCTQMFTAALFIS*KVEISQ MPIINEKINKLYIHMTCHTKNKVLIRD T*MNLENIKLNERGOTKKKKKAIYCLSL FM*YVQNRQIHTDEK
7977	16028	A	930	205	400	

7978	16029	A	931	234	425	ICKWILPCGLAGSYKIAKWVSGFTLLLT HMGAAWV*L.SLFGYTLF*FPKMSSFL TMKKDIF
7979	16030	A	932	405	862	
7980	16031	A	933	2	412	
7981	16032	A	934	110	431	
7982	16033	B	935	754	1544	MREIVHIIQAGQCGNQIGAKFWEPPKASS IELSQCRNSPSKVFRSKEHDLPTVPTTR R*
7983	16034	A	936	1	451	
7984	16035	A	937	1	258	
7985	16036	A	938	3	1906	
7986	16037	A	939	1	585	ECLCVSTAVRIRHEKLTMTTELLRGGSFE FKDMRVPALVTLHMLCSIPLSGRLDS DEQKIQNDIJDILLFTTQGVNEKLITSEET LANNTWSLMLKEVLSSILKVPEGFSSGLI LLSELLPLPLPMQTTQVSLPYNMILINDC SNIT*KASDSVKKQKPSPLPKRHKITG *GGDKTETSWSLKKYGGKNK
7987	16038	A	94	2	605	SHGTPGRFTRPVEFFSGGSAGSFSWPFPK KAKKRAGGADSNVFSMFEQTMQOEFK EAFSIMDQNRDGFIDKNDLRDTFAALGE VNIWKNEIDEMIKEA\PGPLNFTVFLTN VWGENLEADPEETILNAFKVDFP*RP KOCMKADYVSGKMLTHAGRRRFSKE EVDQMFAGLPLLT*LGNDLYKNLVHIT HGVEEKD
7988	16039	A	940	625	2115	
7989	16040	A	941	180	359	GSQRDRWPTSSWRTGRQGSLLRPRWI SFLAQLWRV*RIAGTFVRIEDGNGRRA FI
7990	16041	A	942	1286	2188	
7991	16042	A	943	1	2537	
7992	16043	A	944	2	437	
7993	16044	A	945	298	581	GARAEARAGSGQAGLVSSPVRWRG WSDKGAERPGLPLSPLREVSRACPSG/H AARGQOPGRPRFFPPGPRPRRCPCTRA RPGAAGGGPCL
7994	16045	A	946	377	639	
7995	16046	A	947	1279	2253	
7996	16047	A	948	268	369	
7997	16048	A	949	15	440	
7998	16049	A	95	1	1254	
7999	16050	A	950	118	375	VAVVQIIFLVFIAEKYKDLVPDNSKTD NATKNAEPLNLDVNNPDFKAGVMALA NLLQIQRHDDYLVMLK\AIRLQVERLTQ D
8000	16051	A	951	1	969	AATVLTITTEAFSFRSDSAPARPLAASP PAPPAPRFFSPGRGPGDQSEKRWTFMR RKLTVSLDYHNPAGFNCKDETEFRNFTV WLEDQKIRHYKIEDRGNLRNIHSSDWP YFEKVFYKRC*TCPEKIQDRQESYLTGFFG \LAVRLEYGDNAEKYKDLVPDNSKTA*Q LQLKIAEPLNLDVNNPDFKAGVGVGF* TWLQIQRHDLGPGQMLKANSFWVQE RLDIHQCCQFA*GQIKQKRGLPVALDKHI LGFTDGDVLENEAAQILRLHIEELRELQ TKINEAIVAVQAIADPKTDHRLGKSLED EHLRTSASHLL
8001	16052	A	952	1258	1429	
8002	16053	A	953	189	403	

8003	16054	A	954	51	1702	GLPRCASVQPVFCYQRRWKRWLWDIT WEKWQMDTVQKSIYRNILEKYRNILV LDGKLAAGAKTSRVEQQDISKED*SQRL EMEEI.AKRKSVPEFIWKSROQFNQOLN KENNLQOEIATCTKIPTRKRDIJESNEF/RE KFYCKINTCC/MNR*ILWKRVINMWHVE RCSNKTQI*LYKESMMEKKKPKCYSECG RTRFRGHITLVQHQTTHCGERPKCTEERK GFNQSSHLRNORQKTLGSEKPYKCSCEG KAFSYCLVLNQHQRHISGEKPYEGTECG KTFIQSSYLTQHQR/TSHTGEKPYTLECG GRLFSQNTHTLTHQRHTGEKPYECNEC GRSFSQTAHLTOHQRMVTEKLYECNE CEKAFHDHISALIQHHVHTAEKPYDIMIT GKTFYSYCDLIQHQRMHTEKPYKCNEC GNAFSDCSSLIQHQR/HTGEPYECKQC GKAFSRSTYLTQHQRSHAGEKQYKNE CEKTFSLSSFLTQHMRVQTEKPYKYNE YGKAFSDCSGHFORHTGEPKCECND GKPFSSCSALIOHKRHTTRKKP
8004	16055	A	955	2	270	REEKEWPPHTQWPVPEGCFKDGQHYEE GSVIKENCS*WTAQNYSQFWGMILED GFKFRLGTLPSPMLLSMNEMITVSVPSD SRMCMYL
8005	16056	A	956	1	999	
8006	16057	A	957	1	1518	VHCSEFFGRPPRPRTIRGRKVEAIPVFQR MWTGYKILIFSYLETEIWMKQYLSQRE VDLEAYFTRNHTFLQGFHFKRAIFQGG YCRNFGCCEDRDDGCVTEFYAANALCY CDKFCDRENSDCCPDYKSFCEKEWPP HTQPWVYPEGCFKDGQHYEESVIKENC NSCTCSQQWKCSQHVCLVRPELIEQV NKGDYGWTAQNYSQFWGMTLEDGPKF RLGTLPSPMLLSMNEMITASLPATTDLP EFFVASYKWPGWTHGPLDKNCASW AFSTASVAADRIAQSKGRYTANLSPQNL ISCCAKNRHGCNSGSIDRAWVYLRKR LVSHACYPLFKDQNAATNNGCAMASRSD GRGKRHATKPCPNVKSNIYQCSPPY RVSSNETEIMKEIMQNGPVQAIMQVHED FFHYKTGIYRHVTSNKESEKYRKLQTH AVKLTGWGTLRGAQGGQKEFWIAANS WGKSWGNGYFRILRGVNESDIEKLIAA WGOLTSSDEP
8007	16058	A	958	316	411	
8008	16059	A	959	314	390	
8009	16060	B	96	52	554	MGKEKTHINIVIGHVDSQKSTTTGHLY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLAERERGITIDISLWKFETSKY YVITIDAPGHRDFIKNMILNHPQGISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDQPKFLKSGDAAIVDMVPGKPI*
8010	16061	A	960	112	1154	SCGLGHRKTFVSFVSLPARNETQPKACRE QNMEGDGSVCRNC*RHVVSANFTLHEA YCLRFLVLCPECEPVPKTEMEHCKLE HQQVVGCTMCQQIMHKSSELFHKAHECQ ERPVECKFCCKLDMQLSKLEHESVCGSR TELCCQCGQFIMIRMLAQRRDVCRSEQ AQLGKGERISAPERETIYCHYCNQMPEN KYFHUIMGCCCPSEFKHFPVGNPEILP SSLPSQAAENQTSMEKDVVRPKTRSDNRF PLHSESSKKAPRSKNKTLDPMLMSEPKP RTSSPRGDKAAYDILRRCSQCGILPLPL NQHQEKCRWLASSKRTSEKQLDLEK ERYKFKRPFH
8011	16062	A	961	103	538	
8012	16063	A	962	1	405	
8013	16064	C	963	334	471	

8014	16065	A	964	1	1137	
8015	16066	A	965	1	451	GDRPFRV*DPRAGQAATFWTDPSLS*SL LLGVMFPAAPSRTTGTGPRRGLAGLG PGSTPRTASRMGLPLGSAVSSPVLFSFGG RRSSLISRGTTPTMLPHHSITESVNYDAK TIGSSLPVKVMEALTLAEVDDQLTININE GGWACL
8016	16067	A	966	301	1867	
8017	16068	A	967	57	383	GWLAHTANERPVRFCFWLEGFGLENIRA PTLNF*QIQQSLAIFVEPIKTLIPCFFRIF STVRICITVSSHSFPGPGAGLLHFCSSSL YRFKISFGDVTAVAPVPDF
8018	16069	A	968	507	904	GKRAGECWRRSLRPRGPRGTRAASPS ARPSLALASAPRPKSGPRQGRRLPLW PRLKGQVCARGPGRGGPGVGGRRSA SARAPRVPDQPPPPAPSS*ED/WT*EIG RLSSHAPLAVLHTRSALLNS
8019	16070	A	969	379	858	
8020	16071	A	97	1	1299	
8021	16072	A	970	259	483	
8022	16073	A	971	175	588	
8023	16074	A	972	1	383	
8024	16075	A	973	79	445	
8025	16076	A	974	1163	1401	
8026	16077	A	975	80	406	
8027	16078	C	976	70	240	MITGTSQADCAVLIVAAGVGFEAGISK NGQTRRDMRKXLRKSALTIRKLATPT O*
8028	16079	B	977	68	490	MGKEKTHINIVVIGHVDSGKSTTGHLY KCGGIDKRTIEKFEKEAEMGKGSFKYA WVLDKLAERERGITIDISLWKFTSKY YVTIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGFEAGISKNGQTRHALLA*
8029	16080	A	978	261	406	
8030	16081	A	979	1	678	
8031	16082	A	98	36	697	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAEMG KGSFKYA WVLDKLAERERGITIDISLW KFETSKYYVTIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGFEAGISKNGQTR HALLAYTLGVKQLIVGVNKMDSGTGAIL TGDFPSLEPRHVSTVLQHVVTIPTRNWH KCYCVGVVANFLNWSADFLNNF
8032	16083	A	980	181	340	
8033	16084	A	981	1	375	

8034	16085	A	982	1	2583	MVNFTVDQIRAIMDKKANIRNMSVIAHV DHGKSTLTDLSLVCKAGIIASARAGETRFT DTRKDEQERCIPIKVNAISLFYELISEND LNFIQOSKDGAGFLINLIDSPGHVDFESSE VTAALRVTMGALVVVDCSVGVCVQOTET VLRQALAEIRIKPVLMMNKMMDRALLELO LEPEELYQTFQRIVENNVNIISTYGESES PMGNIMDPVLGTGVFGSGLHGWAFTLK QFAEMYVAKFAAKGEGOLGPAERAKK VEDMMKKLWGDYFDFPANGKFSKPAT SPEGKKLPRTFQQLILDPFKVFDAIMNF KKEETAKLIEKLDIKLDESDKDEKGPLL KAVMRRVLPGDALLQMITHLPSPVTA QKYRCELLYEGPPDDEAAMGIKSCDPKG PLMMYISKMVPTSDKGRFYAFGRVFSGL VSTGLKVRIMGPNYTPGKEDLYLKPIQ RTLMMGRYVEPIEDVPCGNIVGLVGVD QFLVKTGITITTEHAHNMRVMKFSVSPV YRVAVEAKNPADLPKLVEGLKRLAKSD PMVQCIIESGEHIIAQAGELHLEICKDL EEDHACIPIKKSDPVVSYRETVSESNVL CLSKSPNKHNLRYMKARPPDGLAEDID KGEVSARQELKQRAYLAEKYEWDAE ARKIWCQPDGTGPNLTDITKGVQVYLN EIKDSVAVGQWATKEGALCENMRGV RFDVHDVTLHADAIHRGGGQIITARRC LYASVLTAQFLMPEYLVVEIQCEQVVG GIYGVNLNRKGRHVFEESQVAGTBMFVV KAYLPVNESFGFTADLRSNTGGQAFQC VFDHWQILPGDFPDNSRSPQVVAETRK RKGLKEGIPALDNFLDKL
8035	16086	A	983	1326	1498	RRRNSDGNACQPATHLLLSARFITGHQ KLKSELKTLQVIMLNIQVRIPTRDGY NEKDILSTGKNVEKLELSNIAGYPSNIEK KEYQEQSVLSCCSEKRDANPKSVVCSFF MQEQCTKGEKRFLLPGTSLVDRHLRYFG ILPTVSNAAVVKEVPTVSNAAVVTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8036	16087	A	984	60	966	RRRNSDGNACQPATHLLLSARFITGHQ KLKSELKTLQVIMLNIQVRIPTRDGY NEKDILSTGKNVEKLELSNIAGYPSNIEK KEYQEQSVLSCCSEKRDANPKSVVCSFF MQEQCTKGEKRFLLPGTSLVDRHLRYFG ILPTVSNAAVVKEVPTVSNAAVVTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8037	16088	A	985	1393	1625	
8038	16089	A	986	358	475	
8039	16090	A	987	232	329	
8040	16091	A	988	127	461	
8041	16092	A	989	562	897	
8042	16093	A	99	62	1548	PLKAKMGKEKTHNINIVIGHVDSGKST TTGHLIYKC/GGINDKRTIEKFEKEAAEM KGKSPFYAWVLDDKLKAEERGITTDISL WKFFETSKYYVD*SLIAPGHQETFIQKH DLQGTSGQLAWFGGPPFWGGSPLIVAA GWGEF*SLVSPKNGADPTKHALGLHT GVWQKTLFGVNKNWIST*EPYSPSPEED IEGNC*GKVSTYIKKIGYNDITSSILCPIS GWNGDNMLFSPNMPWFQGDGKVTR KDGNASGTTLLLEALDCILPPTRTDKPLG LPLQDVYKIGGIGTVPVGRVETGVLKPG MVVTFGPVNVITVKSVMHHEALGEA LPGDNVGFNVKNVSKDVRNRNVAGDS KNDPPMEAGGPAQVILNHPGQISAGY APVLDDCHTAHIAKFAELKEKIDRRSGK KLEDGPKFLKSGDAIIVDMVPGKPMCV ESFSDYPLGCFVVRDMRQTVAVGVVKA VDKKAAGAGKVTKSAQKAQKAK
8043	16094	A	991	7	494	
8044	16095	A	992	206	357	

8045	16096	A	993	1	101	
8046	16097	A	994	256	407	
8047	16098	A	995	254	432	
8048	16099	A	996	249	400	
8049	16100	A	997	37	465	
8050	16101	C	998	127	216	MRLRKQAEKNVEKKIDKYTEVLKTHGL LV*
8051	16102	A	999	1	1258	LFLPLLEPGERRGLLYRSRPGGAVALILL AAAVSICAVSQHAPPWTEDCRKSTYPPS RPTYRGAVVPWDITIQCLTYHPYKRWHEL MLDKAPV/LQKVIVNSLKNMINTFVPSG KIMQVVDEKLPGLLGNFPGPFEEMKG IGRCLLDIPLGEHSFNFPYELFTICTSIVA EDKKGHILHGRNMDFGVPLVWNINND TWVITEQLKPLTVNLDFQRNNKTVFKAS SFAGYVGMILTGFKPGFLSLTLNERFSIN GGYLGHLEWILGKKDAMWIGFLTRTVLE NSTSYEEAKNLLTKTKILAPAYFILGNGQ SGEGCVITRDKESLDVYELDAKQGRW YVVQTNYDRWKHPFLDDRPTAKMCL NRTSQENISFETMYDVLSTKPVNLKLT.V YTTLDVTKGQFETYLRDCPDPCIGW

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:
 - (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
 - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-8051.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.

13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
 - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
 - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
 - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and
 - b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.
17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:
- a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and
 - b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.
18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO: 1-8051, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 8052-16102, the mature protein portion thereof, or the active domain thereof.

21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.

22. A collection of polynucleotides, wherein the collection comprises the sequence information of at least one of SEQ ID NO: 1-8051.

23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.

24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.

25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.

26. The collection of claim 22, wherein the collection is provided in a computer-readable format.

27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

28. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.